

# **NOTICE**

**All drawings located at the end of the document.**

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RPA Project File

January 31, 1995

95-RF-01300

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OPERABLE UNIT NO. 1 (OU1) QUARTERLY REPORT SUBMITTAL - MBU-006-95

Action: None required.

Enclosed is the Quarterly Report for October through December 1994 (includes data summary for July through September 1994). This report fulfills an external milestone in Work Package 12003.

If you have any questions please contact Russ Cirillo of my staff at extension 5876.

*M.C. Burmeister*  
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Facilities Management Manager  
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JRC:alc

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# **QUARTERLY REPORT**

**FOR OCTOBER THROUGH DECEMBER 1994  
INCLUDING DATA SUMMARY FOR JULY THROUGH SEPTEMBER 1994**

**OPERABLE UNIT 1  
IM/IRA TREATMENT FACILITY**

**PREPARED BY**



**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
ENVIRONMENTAL RESTORATION PROGRAM DIVISION  
ENVIRONMENTAL OPERATIONS MANAGEMENT**

## TABLE OF CONTENTS

### SECTION A - OPERATIONS SUMMARY

	PAGE
1.0 OPERATIONS SUMMARY INTRODUCTION	4
2.0 INFLUENT WATER CHARACTERISTICS	4
2.1 INFLUENT FLOW RATES	4
2.2 INFLUENT CONTAMINANTS	7
3.0 TREATMENT FACILITY PERFORMANCE	7
3.1 QUANTITY OF WATER TREATED	8
3.2 WATER FROM OTHER SOURCES	8
3.3 CHEMICAL USAGE	8
3.4 WASTE GENERATION	8
3.5 OPERATING COSTS	10
3.6 MAINTENANCE	10
4.0 ENVIRONMENTAL COMPLIANCE/EFFLUENT TANK SAMPLING	10
5.0 REPORTS AND CORRESPONDENCE	10
6.0 ANTICIPATED OPERATIONS FOR NEXT QUARTER	10
7.0 OPERATIONS SUMMARY/CONCLUSIONS	11

**SECTION B - DATA SUMMARY FOR JULY THROUGH SEPTEMBER 1994**

	PAGE
8.0 DATA SUMMARY INTRODUCTION	12
9.0 GROUNDWATER ANALYSIS	12
9.1 GROUNDWATER ELEVATIONS	12
10.0 INFLUENT CHARACTERIZATION	14
11.0 CONTAMINATION DESTRUCTION/UV SYSTEM AND ION EXCHANGE SYSTEM EFFICIENCY SAMPLING	15
11.1 IX#1 PERFORMANCE	15
11.2 IX#2 PERFORMANCE	15
11.3 IX#3 PERFORMANCE	17
11.4 IX#4 PERFORMANCE	17
11.5 UV/PEROXIDE SYSTEM PERFORMANCE	23
12.0 DATA SUMMARY/CONCLUSIONS	23

## **SECTION A - OPERATIONS SUMMARY**

### **1.0 OPERATIONS SUMMARY INTRODUCTION**

The Operable Unit No. 1 (OU-1) water treatment facility located in Building 891 is responsible for treating groundwater collected from the 881 Hillside area. The water is collected in a french drain located on the 881 hillside and pumped to the influent storage tanks located at Building 891 (see Figure 1.0.1). Next, the water is treated with an ultraviolet (UV) light/hydrogen peroxide system (for removal of volatile organic compounds) and a four-step ion exchange (IX) system (for removal of uranium, total dissolved solids, hardness, alkalinity, anions, and selected metals). After treatment, the water is stored in one of three effluent storage tanks until laboratory sample results verify that the water chemistry meets ARARs and is acceptable for discharge into the South Interceptor Ditch (SID).

This report reflects the Building 891 Treatment Facility operations and data that are critical for determining optimal operating practices. Section A (Operations Summary) of the report deals specifically with day to day operations activities for the October through December 1994 period. Section B (Data Summary for July through September 1994) of the report includes specific data for the groundwater wells, influent sources, and treatment system performance. Validated results are used whenever possible to evaluate this data.

### **2.0 INFLUENT WATER CHARACTERISTICS**

Influent water for the treatment facility comes from two different sources on the 881 Hillside. These sources include the collection well CW001 (located upgradient of the french drain) and groundwater intercepted by the french drain . Collection well water is pumped directly into the french drain sump and mixed with the groundwater/footing drain water (see Figure 2.0.1). The combined water is then pumped from the french drain sump into the treatment system influent tanks. Sampling is performed at each of the collection well and the french drain sump locations for characterization of the influent waters. Collection of the water from the 881 footing drain was discontinued at the end of September 1994. This water is now sampled quarterly by the surface water group.

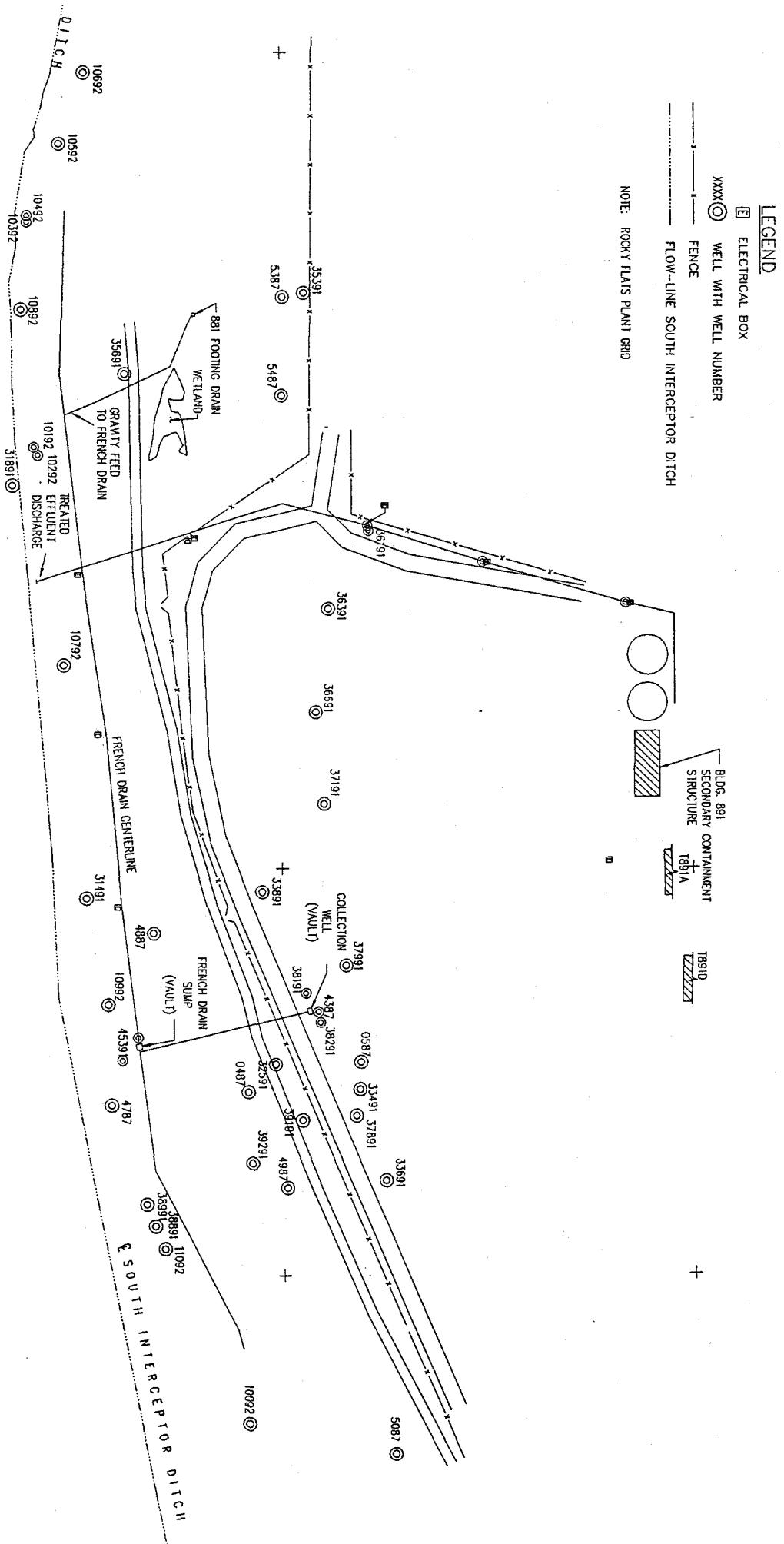
#### **2.1 INFLUENT FLOW RATES**

Direction was received from the Department Of Energy (DOE) to discontinue pumping water from the collection well to the french drain. Since the diluting effect of the 881 footing drain was no longer present in the french drain system, there was a concern that the water from the collection may contaminate the french drain. The segregation of these sources also makes it possible to characterize the french drain sump water without the influence of other sources. The pumping of water from the collection well to the french drain was discontinued on

881 HILLSIDE AREA

Figure 2.0.1

Page 6 of 79



September 29, 1994. The alternate method of accumulating the collection well water was designed, approved, installed, and implemented by November 11, 1994. This involved the redesign of the collection well piping to accommodate transferring water into a portable tanker and the procurement of a tanker/trailer with the proper connections. The work on the repiping of the collection well was performed under an Integrated Work Control Package. A few days delay in completing the modification was experienced due to a period of cold weather that did not allow for the proper conditions to complete the glued joints on the piping modifications.

The new collection process involves the transportation of a portable tank to the collection well. Water from the collection well is then pumped into the tank and transported to the treatment facility for treatment. An average of approximately 80 gallons per day is collected during this transfer process. A total of 2,030 gallons was accumulated from the collection well during the October through December collection period.

The french drain sump is pumped up to the treatment facility on each operating day. The level in the french drain sump regenerates from 1 foot (after pumping) to a 4-6 foot level over a one day period. An average of 590 gallons per operating day is collected from the french drain sump. These activities resulted in the collection of 39,000 gallons of water from the french drain collection system.

## **2.2 INFLUENT CONTAMINANTS**

Review of the most recent data from the collection well indicates that the current concentration of volatile organic compounds in the collection remain in the 500-1000 ppb range. The primary volatiles present are tetrachloroethene and trichloroethene. Since the UV/Peroxide destruction system is effective for these contaminants, no adjustments are currently required for the treatment of these waters.

October 1994 french drain sump data indicates no significant change in the characterization. Tetrachloroethene was detected at 6 ppb. However, this volatile organic is easily destroyed by the UV/peroxide system and does not present a concern from an operations standpoint.

## **3.0 TREATMENT FACILITY PERFORMANCE**

The treatment system performance is measured by various criteria. Quantity of water treated, contamination destruction or removal efficiency, waste generation, operating costs, chemical usage, and system reliability. These criteria are evaluated individually below. In general, the system could not be operated at its optimal level due to the low volumes of water treated. This is due to the inherent cost of maintaining the facility regardless of whether water is treated or not (ie. the cost is roughly the same to treat 100,000 or 500,000 gallons). However, the system did operate effectively when adequate water was available. Data on these criteria are utilized to modify or adjust the system as necessary for optimal performance. An operations database system is presently under development for computerized data entry of all operational information.

### **3.1 QUANTITY OF WATER TREATED**

Approximately 39,000 gallons of water were treated at the treatment facility during the past quarter. Zero effluent tanks (0 gallons) of treated effluent were released to the South Interceptor Ditch. Approximately 2,670,000 gallons of water have been processed through the system to date.

### **3.2 WATER FROM OTHER SOURCES**

Approximately 900 gallons of groundwater well purge water were accepted and treated at the 891 treatment facility. Most of this water was from previous quarters that had been stored in drums. An additional 2,000 gallons of water from the main decontamination pad were also accepted and treated.

### **3.3 CHEMICAL USAGE**

Hydrochloric acid is utilized in the ion exchange system for regeneration of resins in IX#2 (weak acid cation exchanger) and IX#3 (strong acid cation exchanger). The spent regenerant solution from IX#3 is circulated back to IX#2 in order that the maximum regenerant capacity

is utilized from the acid. The resin in IX#4 (weak base anion exchanger) is regenerated with sodium hydroxide. IX#1 is a strong base anion exchange resin which is not regenerated.

A total of 92 gallons of hydrochloric acid and 139 gallons of sodium hydroxide were used for regeneration and neutralization activities during the July through September 1994 period. Approximately 2 gallons of hydrogen peroxide were used for the UV/Peroxide destruction unit.

### **3.4 WASTE GENERATION**

Waste generated at the treatment facility includes sock filters and neutralized regenerant water. One 55 gallon drum of sock filters has been generated in 33 months of operation. One tanker truck load of neutralized regenerant water from Tank T-210 (4,000 gallons) was sent to the 374 evaporator for processing this quarter. Figure 3.4.1 compares the quantity of water treated to the amount of secondary waste generated and subcontractor operating costs.

## OU1 Treated H<sub>2</sub>O vs. Secondary Waste and Subcontractor Cost

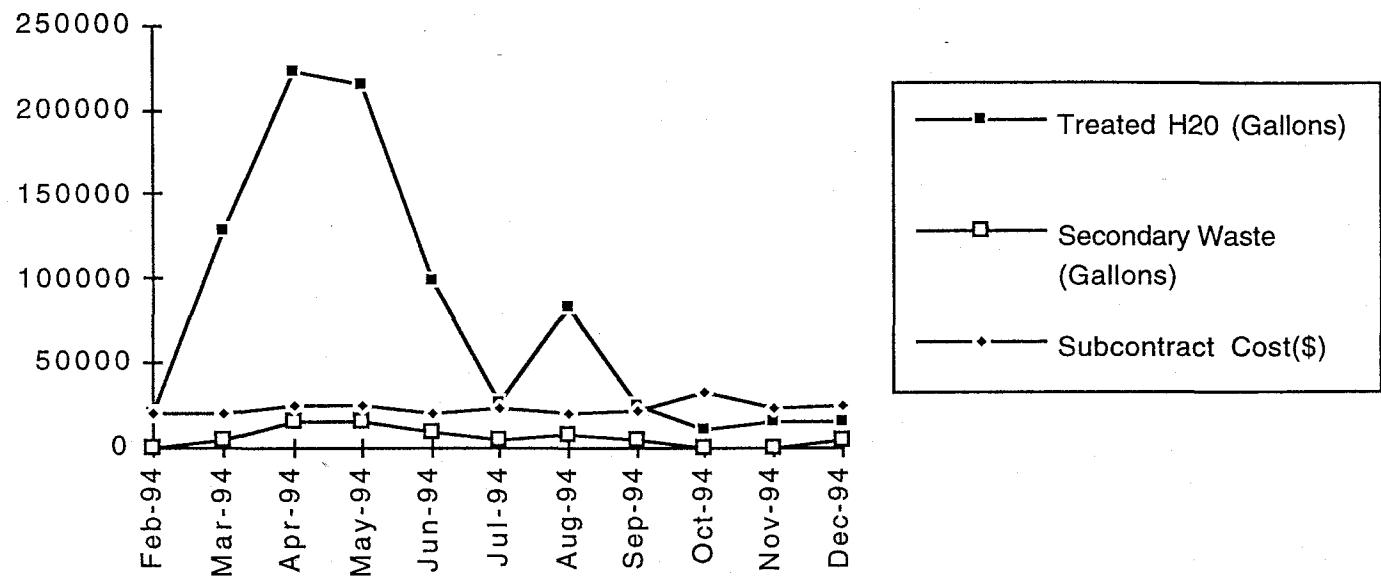


FIGURE 3.4.1

### **3.5 OPERATING COSTS**

Subcontracted operating costs for this quarter totaled approximately \$81,000. These costs include chemical purchases, spare parts, labor, and document preparation which are performed under the current operations and maintenance subcontract. Figure 3.4.1 emphasizes the fact that operating costs are fairly consistent and independent of volume of water treated.

### **3.6 MAINTENANCE**

The maintenance needed to keep the treatment facility operating safely and effectively has been reduced over the past quarter due to the decreased quantity of water treated. The following maintenance was performed during the October through December 1994 operating period:

- \* The level transmitter on influent Tank T-201 was replaced.
- \* The infrastructure replacement project was completed during December of 1994. Work included the replacement of hangers, conduit, unistrut and other hardware.
- \* The collection well was modified to transfer water to a portable tanker. Also, the pick-up truck was modified to receive a trailer hook-up.
- \* An inner containment was added to the secondary containment sump in Building 891 in order to allow for wash water to remain in the sump area.
- \* Daily tank and pipe inspections were performed.

### **4.0 ENVIRONMENTAL COMPLIANCE/EFFLUENT TANK SAMPLING**

Each effluent tank is sampled and analyzed prior to discharge. During the past quarter no discharges were made from the effluent tanks.

### **5.0 REPORTS AND CORRESPONDENCE**

A letter was received from DOE requesting that the collection of the 881 footing drain be discontinued. In addition, this letter requested that water no longer be pumped from the collection well to the french drain sump, and that alternate methods of transporting the water had to be implemented.

### **6.0 ANTICIPATED OPERATIONS FOR NEXT QUARTER**

Water from the collection well will continue to be accumulated in a portable tank and transferred to Building 891 for off-loading. Collection of the french drain will continue as normal. Purge, incidental and decontamination pad waters will continue to be accepted and treated.

Efforts will continue to work with Environmental Operations Management personnel in combining the 891 treatment facility with other technologies to create a sitewide treatment facility.

## **7.0 OPERATIONS SUMMARY/CONCLUSIONS**

Approximately 2,670,000 gallons of waters have been treated to date at the treatment facility. Nearly 39,000 gallons of water were treated during the past quarter. The discharge of effluent tank water was not needed during the past quarter. A portion of the water treated included 2,900 gallons of water from additional sources.

Figure 3.4.1 demonstrates that the treatment facility is not currently operating at its optimum capacity. It is expected that the combination of the 891 treatment facility with other technologies will assist in making treatment services available to other Environmental Restoration areas on plantsite.

## **SECTION B - DATA SUMMARY FOR JULY THROUGH SEPTEMBER 1994**

### **8.0 DATA SUMMARY INTRODUCTION**

This section of the report reflects the Building 891 Treatment Facility operations parameters and associated Operable Unit #1 data. Documentation included covers the time period from July through September 1994. Data collected are used to determine optimal operating practices at the 891 treatment facility. Validated data has been used whenever possible for evaluations.

### **9.0 GROUNDWATER ANALYSIS**

The French Drain Performance Monitoring Plan (FDPMP) requires data for monitoring french drain performance. The FDPMP requires groundwater level measurements of designated french drain monitoring wells 10092, 10192, 10292, 10392, 10492, 10592, 10692, 10792, 10892, 10992, 11092, 39991, 45391, 4887, 35691, 31491, and 4787. Additionally, quarterly water quality sampling of the wells is required. Not all locations are sampled for all parameters due to the small quantities of water generated at most of these locations.

Sulfate (230 - 470 mg/l), total dissolved solids (1000 - 1550 mg/l), total selenium (10.2 - 685 ug/l), and gross alpha (25 pCi/l) are the only parameters exceeding ARARs. These exceedances are primarily in wells near the western termination of the french drain and are typical of results from past sampling. Low level volatile detections (tetrachloroethene  $\approx$  .9 ug/l, toluene  $\approx$  4 ug/l, methyl chloride  $\approx$  2.6 ug/l ) were found in a few locations but were well below the ARARs established for OU1. A summary of the results is found in Appendix A.

### **9.1 GROUNDWATER ELEVATIONS**

Figure 9.1.1 is a water level map that was constructed from October through December 1994 water level data. Water level grids were constructed from these data using a 50-foot grid spacing. The existing bedrock grid for OU1 was then subtracted from the respective water level grid to obtain a saturated thickness grid. Areas within these saturated thickness grids that were negative were considered to be unsaturated. In these areas the calculated water level grid extended below the bedrock surface. The saturated thickness grids were then edited to match known areas within OU1 that contain dry wells. These edited saturated thickness grids were then added to the bedrock grid to obtain a new water level grid for each quarter. This water level grid is the basis for the presented map. Examination of the current map compared to those of previous quarters indicates that large areas of the 881 Hillside continue to appear unsaturated.

## 10.0 INFLUENT CHARACTERIZATION

Influent water for the treatment facility comes from two different sources on the 881 Hillside. These sources include the collection well CW001 (located upgradient of the french drain), and groundwater intercepted by the french drain. The collection of the 881 footing drain water was discontinued in September 1994. The footing drain data is also represented here since this was a former source to Building 891 during this reporting period. Collection well water was still pumped directly into the french drain sump and mixed with the groundwater. The combined water is then pumped from the french drain sump into the treatment system influent tanks. Sampling is performed at the collection well and the french drain sump for characterization of the influent waters.

Appendix B illustrates the analytical results for July through September 1994 at the French Drain Sump, 881 Footing Drain, and the Collection Well respectively. Most parameters were found to be below ARAR with the exception of the Total Dissolved Solids which remain above the ARAR of 400 mg/l for all locations.

One exceedance of tetrachloroethene (7 ppb) was detected during sampling of the french drain sump. All other parameters remained below ARARs for this location.

Samples taken from the collection well continue to contain elevated levels of volatile organics. Volatiles detected in this set of data included the following:

1,1,1 Trichloroethane	5-7 ppb
1,1 Dichloroethene	12-18 ppb
Tetrachloroethene	98-140 ppb
Trichloroethene	560-1000 ppb
Carbon Tetrachloride	5 ppb

Compounds previously detected from the glue used for the piping modifications appear to have been purged from the system. Uranium activity levels found at this location are also higher than those in the french drain sump and 881 footing drain. Activity levels for uranium in the collection well average approximately 25 pCi/l compared to the levels found in the footing drain and french drain sump which are normally 5-10 pCi/l. Gross alpha (16 pCi/l) exceeded the ARAR of 15 pCi/l on one occasion. Sulfate (310 mg/l) was also over the ARAR of 250 mg/l during one sampling event.

Volatile organics were detected in the footing drain samples taken in early September 1994. This falls into the time period when the collection of the footing drain was still taking place. Tetrachloroethene (47 ppb), trichloroethene (6 ppb) and three unknowns (10 ppb, 15 ppb, and 23 ppb) were found in this sample. Unknown compounds are sometimes identified as tentatively identified compounds (TICs). However, in this case the unknowns found in the sample were not identified. According to the sampling logbook, there was extremely low flow at the footing drain outfall during this sampling event. Problems with water backing up into the 800 area (due to the tree root blockage in the footing drain line) required that water be directly pumped to the french drain pipe (therefore bypassing the outfall). Apparently, this reduced flow changed the characteristics of the outfall water for that sampling event. However, preliminary October sample results resumed the normal pattern of all parameters falling below ARAR.

## **11.0 CONTAMINATION DESTRUCTION/UV SYSTEM AND ION EXCHANGE SYSTEM EFFICIENCY SAMPLING**

The primary purpose of sampling inside Building 891 is to determine the efficiency of the system in the removal of target contaminants (uranium, metals, anions, VOCs). No significant variations in radiochemistry, water quality, or metals were found in any influent waters sampled.

### **11.1 IX#1 PERFORMANCE**

IX#1 contains a strong base anion exchange resin which serves to remove uranium from the groundwater. Influent water contains uranium in the form of a carbonate complex (negatively charged). This ion loads on the strong base resin located in the first ion exchange column, thus removing uranium from the water. Unlike the other resins in the system, this resin is not regenerated. Influent and effluent results for IX#1 are shown in Table 11.1.1. These results are consistent with previous samples taken at this location. Influent uranium activity levels continue to remain below 10 pCi/l. A 99% reduction in the uranium activity level is routinely achieved. However, one sample from July 1994 yielded only a 9% removal efficiency. Subsequent samples in August and September indicated a removal efficiency of 97% and 99% respectively. It appears that the laboratory may have experienced some quality control problems with the July sample. Estimated values are listed in the data set and duplicate samples were also run with poor reproducibility. Monitoring will continue to be performed at this location to ensure that an appropriate removal efficiency is achieved.

### **11.2 IX#2 PERFORMANCE**

The IX#2 resin is a weak acid cation exchange resin. The primary function of the resin is to remove calcium and magnesium alkalinity. Bicarbonate and carbonate are also removed because the exchange media is utilized in the hydrogen form. Since these parameters are not of special interest (no ARARs), samples are not taken to determine the efficiency of this column. However, based on influent vs. effluent data, this column is adequately reducing the levels of calcium and magnesium for further treatment in IX#3.

TABLE 11.1.1

## 891 IX1 Influent Rads July - September 1994

Sample Number	Sample Date	Isotope	Result	Unit Meas	Error	Qual	Vqual	ARAR	# SAM > ARAR
FT10275RG	12-Jul-94	URANIUM-233,-234	2.4	PCI/L	0.3		V		
		URANIUM-235	0.12	PCI/L	0.083	J	V		
		URANIUM-238	1.9	PCI/L	0.25		V		
		TOTAL URANIUM	4.42		0.633			40	0
FT10286RG	4-Aug-94	URANIUM-233,-234	3.4	PCI/L	0.64	B	V		
		URANIUM-235	0.19	PCI/L	0.17	U	V		
		URANIUM-238	2.7	PCI/L	0.56		V		
		TOTAL URANIUM	6.29		1.37			40	0
FT10303RG	13-Sep-94	URANIUM-233,-234	4.5	PCI/L	0.72		Y		
		URANIUM-235	0.23	PCI/L	0.14	J	Y		
		URANIUM-238	3	PCI/L	0.56		Y		
		TOTAL URANIUM	7.73		1.42			40	0

## 891 IX1 Effluent Rads July - September 1994

Sample Number	Sample Date	Isotope	Result	Unit Meas	Error	Qual	Vqual	ARAR	# SAM > ARAR
FT10276RG	12-Jul-94	URANIUM-233,-234	2.2	PCI/L	0.3		V		
		URANIUM-235	0.12	PCI/L	0.073	J	V		
		URANIUM-238	1.7	PCI/L	0.24		V		
		TOTAL URANIUM	4.02		0.613			40	0
		Percent Removal Total U		9.05					
FT10287RG	4-Aug-94	URANIUM-233,-234	0.16	PCI/L	0.14	U	V		
		URANIUM-235	0.028	PCI/L	0.056	U	V		
		URANIUM-238	0.023	PCI/L	0.047	U	V		
		TOTAL URANIUM	0.211		0.243			40	0
		Percent Removal Total U		96.65					
FT10304RG	13-Sep-94	URANIUM-233,-234	0.037	PCI/L	0.061	U	Y		
		URANIUM-235	-0.022	PCI/L	0.015	U	Y		
		URANIUM-238	0.031	PCI/L	0.025	U	Y		
		TOTAL URANIUM	0.046		0.101			40	0
		Percent Removal Total U		98.98					

### **11.3 IX#3 PERFORMANCE**

The IX#3 resin is a strong acid cation exchanger. The primary function of this column is to remove metals from the water. Sample results obtained from the effluent of IX#2 and IX#3 (Refer to Tables 11.3.1 - 11.3.4) provide valuable information about the performance of this resin.

Metals samples are consistent with those of previous reporting periods. The percent removal calculations shown below were taken from the July and September data sets (see Tables 11.3.1 - 11.3.4). The August influent sample to IX#3 did not contain adequate quantities of cations to provide useful data and therefore is not represented below.

	<u>JULY</u>	<u>SEPTEMBER</u>
Aluminum	-----	67 %
Barium	98 %	-----
Calcium	99 %	99 %
Iron	-----	77 %
Magnesium	99 %	99 %
Potassium	29 %	79 %
Sodium	44 %	99 %
Strontium	99 %	99 %
Tin	-----	61 %
Zinc	-----	95 %

The resin in IX#3 continues to offer good performance and does not appear to require change out any time in the near future.

### **11.4 IX#4 PERFORMANCE**

The IX#4 resin is a weak base anion exchange resin. The primary function of this resin is to remove anions (such as chloride, sulfate, nitrate/nitrite etc.) from the water. Removal efficiency sampling (Refer to Table 11.4.1) indicates that good removal of chloride (99%), sulfate (95%), nitrate/nitrite (99%), TDS (80-83%) continues in the system. The sample taken August 1994 exhibited unusual TDS results. The result indicates an increase from 10 mg/l to 180 mg/l across IX#4. This result is highly irregular and is assumed to have been reported incorrectly.

TABLE 11.3.1

891 IX3 Influent Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual	Vqual	ARAR	# SAM > ARAR
FT10277RG	12-Jul-94	ALUMINUM	12 UG/L		U	V	5000	0
		ANTIMONY	13 UG/L		U	V	60	0
		ARSENIC	2.1 UG/L		B	V	50	0
		BARIUM	56.6 UG/L		B	V	1000	0
		BERYLLIUM	1 UG/L		U	V	100	0
		CADMIUM	3 UG/L		U	V	10	0
		CALCIUM	36500 UG/L			V		
		CESIUM	60 UG/L		B	V		
		CHROMIUM	2 UG/L		U	V	50	0
		COBALT	3 UG/L		U	V		
		COPPER	2 UG/L		U	V	200	0
		IRON	22.2 UG/L		U	JA	300	0
		LEAD	1 UG/L		U	V	50	0
		LITHIUM	14.5 UG/L		B	V	2500	0
		MAGNESIUM	15000 UG/L			V		
		MANGANESE	1 UG/L		U	V	50	0
		MERCURY	0.2 UG/L		U	V	2	0
		MOLYBDENUM	5.9 UG/L		U	JA	100	0
		NICKEL	6 UG/L		U	V	200	0
		POTASSIUM	2540 UG/L		B	V		
		SELENIUM	5.1 UG/L			V	10	0
		SILICON	6470 UG/L			V		
		SILVER	2 UG/L		U	V	50	0
		SODIUM	55500 UG/L			V		
		STRONTIUM	420 UG/L			V		
		THALLIUM	1 UG/L		U	JA	10	0
		TIN	12 UG/L		U	V		
		VANADIUM	2 UG/L		U	V	100	0
		ZINC	9.8 UG/L		U	JA	2000	0
FT10288RG	4-Aug-94	ALUMINUM	18.6 UG/L		B	V	5000	0
		ANTIMONY	13 UG/L		U	V	60	0
		ARSENIC	2 UG/L		UW	V	50	0
		BARIUM	1 UG/L		U	V	1000	0
		BERYLLIUM	1 UG/L		U	V	100	0
		CADMIUM	3 UG/L		U	V	10	0
		CALCIUM	72.8 UG/L		U	JA		
		CESIUM	43 UG/L		U	JA		
		CHROMIUM	3.1 UG/L		B	V	50	0
		COBALT	3 UG/L		U	V		
		COPPER	2.3 UG/L		B	V	200	0
		IRON	10.5 UG/L		B	JA	300	0
		LEAD	1 UG/L		U	V	50	0
		LITHIUM	1 UG/L		U	V	2500	0
		MAGNESIUM	31.1 UG/L		U	JA		
		MANGANESE	2 UG/L		B	V	50	0
		MERCURY	0.2 UG/L		U	V	2	0
		MOLYBDENUM	3 UG/L		U	V	100	0
		NICKEL	6 UG/L		U	V	200	0
		POTASSIUM	493 UG/L		B	V		
		SELENIUM	2 UG/L		U	V	10	0
		SILICON	6350 UG/L			V		
		SILVER	2 UG/L		U	JA	50	0
		SODIUM	514 UG/L		B	V		
		STRONTIUM	1 UG/L		U	JA		
		THALLIUM	2 UG/L		U	JA	10	0
		TIN	12 UG/L		U	V		
		VANADIUM	2 UG/L		U	V	100	0
		ZINC	6.2 UG/L		U	JA	2000	0

TABLE 11.3.2

891 IX3 Influent Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual	Vqual	ARAR	# SAM > ARAR
FT10305RG	13-Sep-94	ALUMINUM	36.1	UG/L	B	V	5000	0
		ANTIMONY	13	UG/L	U	V	60	0
		ARSENIC	2.2	UG/L	B	V	50	0
		BARIUM	5.5	UG/L	B	V	1000	0
		BERYLLIUM	1	UG/L	U	V	100	0
		CADMIUM	3	UG/L	U	V	10	0
		CALCIUM	5030	UG/L		V		
		CESIUM	43	UG/L	U	V		
		CHROMIUM	2.3	UG/L	U	JA	50	0
		COBALT	3	UG/L	U	V		
		COPPER	2.9	UG/L	U	JA	200	0
		IRON	66.2	UG/L	U	JA	300	0
		LEAD	1	UG/L	U	V	50	0
		LITHIUM	14.3	UG/L	B	V	2500	0
		MAGNESIUM	10900	UG/L		V		
		MANGANESE	1.6	UG/L	B	V	50	0
		MERCURY	0.2	UG/L	U	V	2	0
		MOLYBDENUM	14.7	UG/L	B	V	100	0
		NICKEL	6	UG/L	U	V	200	0
		POTASSIUM	3450	UG/L	B	V		
		SELENIUM	7.4	UG/L	S	V	10	0
		SILICON	6740	UG/L		V		
		SILVER	2	UG/L	U	V	50	0
		SODIUM	65000	UG/L		V		
		STRONTIUM	89.4	UG/L	B	V		
		THALLIUM	2	UG/L	U	V	10	0
		TIN	30.7	UG/L	B	V		
		VANADIUM	2.1	UG/L	B	V	100	0
		ZINC	158	UG/L		V	2000	0

TABLE 11.3.3

891 IX3 Effluent Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual	Vqual	ARAR	# SAM > ARAR
FT10278RG	12-Jul-94	ALUMINUM	14.2	UG/L	B	V	5000	0
		ANTIMONY	13	UG/L	U	V	60	0
		ARSENIC	2.4	UG/L	B	V	50	0
		BARIUM	1.4	UG/L	B	V	1000	0
		BERYLLIUM	1	UG/L	U	V	100	0
		CADMIUM	3	UG/L	U	V	10	0
		CALCIUM	264	UG/L	B	V		
		CESIUM	43	UG/L	U	V		
		CHROMIUM	2	UG/L	U	V	50	0
		COBALT	3	UG/L	U	V		
		COPPER	2	UG/L	U	V	200	0
		IRON	21	UG/L	U	JA	300	0
		LEAD	1	UG/L	U	V	50	0
		LITHIUM	16.8	UG/L	B	V	2500	0
		MAGNESIUM	113	UG/L	B	V		
		MANGANESE	1	UG/L	U	V	50	0
		MERCURY	0.2	UG/L	U	V	2	0
		MOLYBDENUM	3	UG/L	U	JA	100	0
		NICKEL	6	UG/L	U	V	200	0
		POTASSIUM	1810	UG/L	B	V		
		SELENIUM	5.4	UG/L	S	V	10	0
		SILICON	6490	UG/L		V		
		SILVER	2	UG/L	U	V	50	0
		SODIUM	31000	UG/L		V		
		STRONTIUM	1.5	UG/L	B	V		
		THALLIUM	1	UG/L	U	JA	10	0
		TIN	12	UG/L	U	V		
		VANADIUM	2	UG/L	U	V	100	0
		ZINC	6.5	UG/L	U	JA	2000	0
FT10289RG	4-Aug-94	ALUMINUM	12	UG/L	U	V	5000	0
		ANTIMONY	13.8	UG/L	B	V	60	0
		ARSENIC	2	UG/L	B	V	50	0
		BARIUM	1	UG/L	U	V	1000	0
		BERYLLIUM	1	UG/L	U	V	100	0
		CADMIUM	3	UG/L	U	V	10	0
		CALCIUM	59.5	UG/L	U	JA		
		CESIUM	43	UG/L	U	V		
		CHROMIUM	2	UG/L	U	V	50	0
		COBALT	3	UG/L	U	V		
		COPPER	2	UG/L	U	V	200	0
		IRON	9.8	UG/L	B	JA	300	0
		LEAD	1	UG/L	U	V	50	0
		LITHIUM	1	UG/L	U	V	2500	0
		MAGNESIUM	24.9	UG/L	U	JA		
		MANGANESE	2.2	UG/L	B	V	50	0
		MERCURY	0.2	UG/L	U	V	2	0
		MOLYBDENUM	3	UG/L	U	V	100	0
		NICKEL	6	UG/L	U	V	200	0
		POTASSIUM	391	UG/L	U	V		
		SELENIUM	2	UG/L	U	JA	10	0
		SILICON	6520	UG/L		V		
		SILVER	2	UG/L	U	V	50	0
		SODIUM	470	UG/L	B	V		
		STRONTIUM	1	UG/L	U	V		
		THALLIUM	2	UG/L	UW	JA	10	0
		TIN	12	UG/L	U	V		
		VANADIUM	2	UG/L	U	V	100	0
		ZINC	4.5	UG/L	U	JA	2000	0

TABLE 11.3.4

891 IX3 Effluent Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual	Vqual	ARAR	# SAM > ARAR
FT10306RG	13-Sep-94	ALUMINUM	12	UG/L	U	V	5000	0
		ANTIMONY	13	UG/L	U	V	60	0
		ARSENIC	2	UG/L	U	V	50	0
		BARIUM	1	UG/L	U	V	1000	0
		BERYLLIUM	1	UG/L	U	V	100	0
		CADMUM	3	UG/L	U	V	10	0
		CALCIUM	39.1	UG/L	U	JA		
		CESIUM	43	UG/L	U	V		
		CHROMIUM	2	UG/L	U	V	50	0
		COBALT	3	UG/L	U	V		
		COPPER	7.6	UG/L	U	JA	200	0
		IRON	15.1	UG/L	U	JA	300	0
		LEAD	1	UG/L	U	V	50	0
		LITHIUM	2.1	UG/L	B	V	2500	0
		MAGNESIUM	23.2	UG/L	U	JA		
		MANGANESE	1	UG/L	U	V	50	0
		MERCURY	0.2	UG/L	U	V	2	0
		MOLYBDENUM	3.3	UG/L	B	V	100	0
		NICKEL	6	UG/L	U	V	200	0
		POTASSIUM	720	UG/L	U	JA		
		SELENIUM	6	UG/L		V	10	0
		SILICON	7080	UG/L		V		
		SILVER	2	UG/L	U	V	50	0
		SODIUM	516	UG/L	B	V		
		STRONTIUM	1	UG/L	U	V		
		THALLIUM	2	UG/L	U	V	10	0
		TIN	12	UG/L	U	V		
		VANADIUM	2.2	UG/L	B	V	100	0
		ZINC	8.4	UG/L	U	JA	2000	0

TABLE 11.4.1

## 891 IX4 Influent Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10278RG	12-Jul-94	CHLORIDE	130	MG/L		V	250	0
		FLUORIDE	0.7	MG/L		V		
		NITRATE/NITRITE	5.3	MG/L		V	10	0
		SULFATE	27	MG/L		V	250	0
		TOTAL DISSOLVED SOLIDS	200	MG/L		V	400	0
		TOTAL SUSPENDED SOLIDS	4	MG/L	U	V		
		pH	2.56	PH		JA		
FT10289RG	4-Aug-94	CHLORIDE	140	MG/L		V	250	0
		FLUORIDE	1.2	MG/L		V		
		NITRATE/NITRITE	2.6	MG/L		V	10	0
		SULFATE	2	MG/L	U	V	250	0
		TOTAL DISSOLVED SOLIDS	10	MG/L	U	V	400	0
		TOTAL SUSPENDED SOLIDS	4	MG/L	U	V		
		pH	2.3	PH		JA		
FT10306RG	13-Sep-94	CHLORIDE	96	MG/L		V	250	0
		FLUORIDE	1.2	MG/L		V		
		NITRATE/NITRITE	5.6	MG/L		V	10	0
		SULFATE	39	MG/L		V	250	0
		TOTAL DISSOLVED SOLIDS	62	MG/L		V	400	0
		TOTAL SUSPENDED SOLIDS	4	MG/L	U	V		
		pH	2.44	PH		JA		

## 891 IX4 Effluent Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10279RG	12-Jul-94	BICARBONATE AS CACO <sub>3</sub>	1	MG/L	U	V		
		CARBONATE AS CACO <sub>3</sub>	28	MG/L		V		
		CHLORIDE	0.8	MG/L		V	250	0
		FLUORIDE	0.1	MG/L	U	V		
		NITRATE/NITRITE	0.04	MG/L		V	10	0
		SULFATE	2	MG/L	U	V	250	0
		TOTAL DISSOLVED SOLIDS	41	MG/L		V	400	0
FT10290RG	4-Aug-94	TOTAL SUSPENDED SOLIDS	4	MG/L	U	V		
		pH	11.06	PH		JA		
		BICARBONATE AS CACO <sub>3</sub>	2	MG/L		V		
		CARBONATE AS CACO <sub>3</sub>	20	MG/L		V		
		CHLORIDE	0.2	MG/L	U	V	250	0
		FLUORIDE	0.1	MG/L	U	V		
		NITRATE/NITRITE	0.02	MG/L	U	V	10	0
FT10307RG	13-Sep-94	SULFATE	2	MG/L	U	V	250	0
		TOTAL DISSOLVED SOLIDS	180	MG/L		V	400	0
		TOTAL SUSPENDED SOLIDS	4	MG/L	U	V		
		pH	10.51	PH		JA		
		BICARBONATE AS CACO <sub>3</sub>	15	MG/L		V		
		CARBONATE AS CACO <sub>3</sub>	1	MG/L	U	V		
		CHLORIDE	0.2	MG/L	U	V	250	0

## **11.5 UV/PEROXIDE SYSTEM**

Tables 11.5.1 - 11.5.6 describe the UV system influent and UV system effluent data. The laboratories appear to have difficulty with the acetone values in the sample analysis. One acetone result was estimated and three others were rejected (through data validation) out of six UV influent and effluent samples taken during the quarter. Any acetone detected in UV effluent samples appears to be a laboratory quality control problem rather than a problem with the UV system.

UV influent data indicates 14 ppb tetrachloroethene and 3 ppb (laboratory estimated) each trichloroethene and 1,2 dichloroethene were present in the September sample. Trace amounts (1 - 2 ppb laboratory estimated) of trichloroethene and tetrachloroethene were detected (detection limit of 5 ppb) in the July and August influent samples. No VOCs were detected in the UV effluent samples.

## **12.0 SUMMARY**

Data presented in this report supports the idea that the treatment facility continues to perform as expected. Ion exchange resins seem to demonstrate highly effective removal of targeted parameters. Replacement of these resins does not appear to be necessary in the near future.

The UV system continues to perform adequately for the compounds and concentrations found in the water on the 881 hillside.

TABLE 11.5.1

891 UV Performance July - September 1994 UV Influent

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10273RG	12-Jul-94	1,1,1-TRICHLOROETHANE	5	UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	5	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5	UG/L	U	V		
		1,1-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	5	UG/L	U	V	7	0
		1,2 DICHLOROETHANE -D4	103	%REC	Z			
		1,2-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,2-DICHLOROETHENE	5	UG/L	U	V		
		1,2-DICHLOROPROPANE	5	UG/L	U	V		
		2-BUTANONE	10	UG/L	U	V		
		2-HEXANONE	10	UG/L	U	V		
		4-METHYL-2-PENTANONE	10	UG/L	U	V		
		ACETONE	10	UG/L	U	V		
		BENZENE	5	UG/L	U	V		
		BROMODICHLOROMETHANE	5	UG/L	U	V		
		BROMOFLUOROBENZENE	105	%REC	Z			
		BROMOFORM	5	UG/L	U	V		
		BROMOMETHANE	10	UG/L	U	V		
		CARBON DISULFIDE	5	UG/L	U	V		
		CARBON TETRACHLORIDE	5	UG/L	U	V	5	0
		CHLOROBENZENE	5	UG/L	U	V		
		CHLOROETHANE	10	UG/L	U	V		
		CHLOROFORM	5	UG/L	U	V		
		CHLORMETHANE	10	UG/L	U	V		
		DIBROMOCHLOROMETHANE	5	UG/L	U	V		
		ETHYLBENZENE	5	UG/L	U	V		
		METHYLENE CHLORIDE	5	UG/L	U	V	5	0
		STYRENE	5	UG/L	U	V		
		TETRACHLOROETHENE	1	UG/L	J	A	5	0
		TOLUENE	5	UG/L	U	V	2000	0
		TOLUENE - D8	101	%REC	Z			
		TOTAL XYLEMES	5	UG/L	U	V		
		TRICHLOROETHENE	1	UG/L	J	A	5	0
		VINYL ACETATE	10	UG/L	U	V		
		VINYL CHLORIDE	10	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5	UG/L	U	V		

TABLE 11.5.2

891 UV Performance July - September 1994 UV Influent

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10284RG	4-Aug-94	1,1,1-TRICHLOROETHANE	5	UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	5	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5	UG/L	U	V		
		1,1-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	5	UG/L	U	V	7	0
		1,2 DICHLOROETHANE -D4	103	%REC		Y		
		1,2 DICHLOROETHANE -D4	103	%REC		Y		
		1,2 DICHLOROETHANE -D4	113	%REC		Z		
		1,2-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,2-DICHLOROETHENE	5	UG/L	U	V		
		1,2-DICHLOROPROPANE	5	UG/L	U	V		
		2-BUTANONE	10	UG/L	U	R		
		2-HEXANONE	10	UG/L	U	R		
		4-METHYL-2-PENTANONE	10	UG/L	U	V		
		ACETONE	10	UG/L	U	R		
		BENZENE	5	UG/L	U	V		
		BROMODICHLOROMETHANE	5	UG/L	U	V		
		BROMOFLUOROBENZENE	96	%REC		Y		
		BROMOFLUOROBENZENE	98	%REC		Y		
		BROMOFLUOROBENZENE	108	%REC		Z		
		BROMOFORM	5	UG/L	U	V		
		BROMOMETHANE	10	UG/L	U	V		
		CARBON DISULFIDE	5	UG/L	U	V		
		CARBON TETRACHLORIDE	5	UG/L	U	V	5	0
		CHLOROBENZENE	5	UG/L	U	V		
		CHLOROETHANE	10	UG/L	U	V		
		CHLOROFORM	1	UG/L	J	A		
		CHLOROMETHANE	10	UG/L	U	V		
		DIBROMOCHLOROMETHANE	5	UG/L	U	V		
		ETHYLBENZENE	5	UG/L	U	V		
		METHYLENE CHLORIDE	5	UG/L	U	V	5	0
		STYRENE	5	UG/L	U	V		
		TETRACHLOROETHENE	2	UG/L	J	A	5	0
		TOLUENE	5	UG/L	U	V	2000	0
		TOLUENE - D8	100	%REC		Y		
		TOLUENE - D8	97	%REC		Y		
		TOLUENE - D8	109	%REC		Z		
		TOTAL XYLEMES	5	UG/L	U	V		
		TRICHLOROETHENE	6	UG/L		V	5	1
		VINYL ACETATE	10	UG/L	U	V		
		VINYL CHLORIDE	10	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5	UG/L	U	V		

TABLE 11.5.3

891 UV Performance July - September 1994 UV Influent

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10301RG	13-Sep-94	1,1,1-TRICHLOROETHANE	5	UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	5	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5	UG/L	U	V		
		1,1-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	5	UG/L	U	V	7	0
		1,2 DICHLOROETHANE -D4	106	%REC		Y		
		1,2 DICHLOROETHANE -D4	111	%REC		Y		
		1,2 DICHLOROETHANE -D4	98	%REC		Z		
		1,2-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,2-DICHLOROETHENE	3	UG/L	J	A		
		1,2-DICHLOROPROPANE	5	UG/L	U	V		
		2-BUTANONE	10	UG/L	U	R		
		2-HEXANONE	10	UG/L	U	R		
		4-METHYL-2-PENTANONE	10	UG/L	U	V		
		ACETONE	10	UG/L	U	R		
		BENZENE	5	UG/L	U	V		
		BROMODICHLOROMETHANE	5	UG/L	U	V		
		BROMOFLUOROBENZENE	100	%REC		Y		
		BROMOFLUOROBENZENE	97	%REC		Y		
		BROMOFLUOROBENZENE	94	%REC		Z		
		BROMOFORM	5	UG/L	U	V		
		BROMOMETHANE	10	UG/L	U	V		
		CARBON DISULFIDE	5	UG/L	U	V		
		CARBON TETRACHLORIDE	5	UG/L	U	V	5	0
		CHLOROBENZENE	5	UG/L	U	V		
		CHLOROETHANE	10	UG/L	U	V		
		CHLOROFORM	5	UG/L	U	V		
		CHLOROMETHANE	10	UG/L	U	V		
		DIBROMOCHLOROMETHANE	5	UG/L	U	V		
		ETHYLBENZENE	5	UG/L	U	V		
		METHYLENE CHLORIDE	5	UG/L	U	V	5	0
		STYRENE	5	UG/L	U	V		
		TETRACHLOROETHENE	14	UG/L		V	5	1
		TOLUENE	5	UG/L	U	V	2000	0
		TOLUENE - D8	101	%REC		Y		
		TOLUENE - D8	98	%REC		Y		
		TOLUENE - D8	92	%REC		Z		
		TOTAL XYLEMES	5	UG/L	U	V		
		TRICHLOROETHENE	3	UG/L	J	A	5	0
		VINYL ACETATE	10	UG/L	U	V		
		VINYL CHLORIDE	10	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5	UG/L	U	V		

TABLE 11.5.4

891 UV Performance July - September 1994 UV Effluent

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10274RG	12-Jul-94	1,1,1-TRICHLOROETHANE	5	UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	5	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5	UG/L	U	V		
		1,1-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	5	UG/L	U	V	7	0
		1,2 DICHLOROETHANE -D4	103	%REC	Z			
		1,2-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,2-DICHLOROETHENE	5	UG/L	U	V		
		1,2-DICHLOROPROPANE	5	UG/L	U	V		
		2-BUTANONE	10	UG/L	U	V		
		2-HEXANONE	10	UG/L	U	V		
		4-METHYL-2-PENTANONE	10	UG/L	U	V		
		ACETONE	10	UG/L	U	V		
		BENZENE	5	UG/L	U	V		
		BROMODICHLOROMETHANE	5	UG/L	U	V		
		BROMOFLUOROBENZENE	103	%REC	Z			
		BROMOFORM	5	UG/L	U	V		
		BROMOMETHANE	10	UG/L	U	V		
		CARBON DISULFIDE	5	UG/L	U	V		
		CARBON TETRACHLORIDE	5	UG/L	U	V	5	0
		CHLOROBENZENE	5	UG/L	U	V		
		CHLOROETHANE	10	UG/L	U	V		
		CHLOROFORM	5	UG/L	U	V		
		CHLOROMETHANE	10	UG/L	U	V		
		DIBROMOCHLOROMETHANE	5	UG/L	U	V		
		ETHYLBENZENE	5	UG/L	U	V		
		METHYLENE CHLORIDE	5	UG/L	U	V	5	0
		STYRENE	5	UG/L	U	V		
		TETRACHLOROETHENE	5	UG/L	U	V	5	0
		TOLUENE	5	UG/L	U	V	2000	0
		TOLUENE - D8	99	%REC	Z			
		TOTAL XYLEMES	5	UG/L	U	V		
		TRICHLOROETHENE	5	UG/L	U	V	5	0
		VINYL ACETATE	10	UG/L	U	V		
		VINYL CHLORIDE	10	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5	UG/L	U	V		

TABLE 11.5.5

891 UV Performance July - September 1994 UV Effluent

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10285RG	4-Aug-94	1,1,1-TRICHLOROETHANE	5	UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	5	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5	UG/L	U	V		
		1,1-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	5	UG/L	U	V	7	0
		1,2 DICHLOROETHANE -D4	109	%REC	Z			
		1,2-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,2-DICHLOROETHENE	5	UG/L	U	V		
		1,2-DICHLOROPROPANE	5	UG/L	U	V		
		2-BUTANONE	10	UG/L	U	R		
		2-HEXANONE	10	UG/L	U	R		
		4-METHYL-2-PENTANONE	10	UG/L	U	V		
		ACETONE	10	UG/L	U	R		
		BENZENE	5	UG/L	U	V		
		BROMODICHLOROMETHANE	5	UG/L	U	V		
		BROMOFLUOROBENZENE	103	%REC	Z			
		BROMOFORM	5	UG/L	U	V		
		BROMOMETHANE	10	UG/L	U	V		
		CARBON DISULFIDE	5	UG/L	U	V		
		CARBON TETRACHLORIDE	5	UG/L	U	V	5	0
		CHLOROBENZENE	5	UG/L	U	V		
		CHLOROETHANE	10	UG/L	U	V		
		CHLOROFORM	5	UG/L	U	V		
		CHLOROMETHANE	10	UG/L	U	V		
		DIBROMOCHLOROMETHANE	5	UG/L	U	V		
		ETHYLBENZENE	5	UG/L	U	V		
		METHYLENE CHLORIDE	5	UG/L	U	V	5	0
		STYRENE	5	UG/L	U	V		
		TETRACHLOROETHENE	5	UG/L	U	V	5	0
		TOLUENE	5	UG/L	U	V	2000	0
		TOLUENE - D8	107	%REC	Z			
		TOTAL XYLEMES	5	UG/L	U	V		
		TRICHLOROETHENE	5	UG/L	U	V	5	0
		VINYL ACETATE	10	UG/L	U	V		
		VINYL CHLORIDE	10	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5	UG/L	U	V		

TABLE 11.5.6

891 UV Performance July - September 1994

UV Effluent

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10302RG	13-Sep-94	1,1,1-TRICHLOROETHANE	5	UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	5	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5	UG/L	U	V		
		1,1-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	5	UG/L	U	V	7	0
		1,2 DICHLOROETHANE -D4	103	%REC		Z		
		1,2-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,2-DICHLOROETHENE	5	UG/L	U	V		
		1,2-DICHLOROPROPANE	5	UG/L	U	V		
		2-BUTANONE	10	UG/L	U	R		
		2-HEXANONE	10	UG/L	U	R		
		4-METHYL-2-PENTANONE	10	UG/L	U	V		
		ACETONE	23	UG/L		JA		
		BENZENE	5	UG/L	U	V		
		BROMODICHLOROMETHANE	5	UG/L	U	V		
		BROMOFLUOROBENZENE	97	%REC		Z		
		BROMOFORM	5	UG/L	U	V		
		BROMOMETHANE	10	UG/L	U	V		
		CARBON DISULFIDE	5	UG/L	U	V		
		CARBON TETRACHLORIDE	5	UG/L	U	V	5	0
		CHLOROBENZENE	5	UG/L	U	V		
		CHLOROETHANE	10	UG/L	U	V		
		CHLOROFORM	5	UG/L	U	V		
		CHLOROMETHANE	10	UG/L	U	V		
		DIBROMOCHLOROMETHANE	5	UG/L	U	V		
		ETHYLBENZENE	5	UG/L	U	V		
		METHYLENE CHLORIDE	5	UG/L	U	V	5	0
		STYRENE	5	UG/L	U	V		
		TETRACHLOROETHENE	5	UG/L	U	V	5	0
		TOLUENE	5	UG/L	U	V	2000	0
		TOLUENE - D8	98	%REC		Z		
		TOTAL XYLEMES	5	UG/L	U	V		
		TRICHLOROETHENE	5	UG/L	U	V	5	0
		VINYL ACETATE	10	UG/L	U	V		
		VINYL CHLORIDE	10	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5	UG/L	U	V		

# **APPENDIX A**

## Well 10492 VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01252GA	18-Aug-94	1,1,1,2-TETRACHLOROETHANE	0.5	UG/L	U	Y		
		1,1,1-TRICHLOROETHANE	0.5	UG/L	U	Y	200	0
		1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	U	Y		
		1,1,2-TRICHLOROETHANE	0.5	UG/L	U	Y		
		1,1-DICHLOROETHANE	0.5	UG/L	U	Y	5	0
		1,1-DICHLOROETHENE	0.5	UG/L	U	Y	7	0
		1,1-DICHLOROPROPENE	0.5	UG/L	U	Y		
		1,2,3-TRICHLOROBENZENE	0.5	UG/L	U	Y		
		1,2,3-TRICHLOROPROPANE	0.5	UG/L	U	Y		
		1,2,4-TRICHLOROBENZENE	0.5	UG/L	U	Y		
		1,2-DIBROMOETHANE				Z		
		1,2-DICHLOROBENZENE	0.5	UG/L	U	Y		
		1,2-DICHLOROETHANE	0.5	UG/L	U	Y	5	0
		1,2-DICHLOROPROPANE	0.5	UG/L	U	Y		
		1,3-DICHLOROBENZENE	0.5	UG/L	U	Y		
		1,3-DICHLOROPROPANE	0.5	UG/L	U	Y		
		1,4-DICHLOROBENZENE	0.5	UG/L	U	Y		
		2,2-DICHLOROPROPANE	0.5	UG/L	U	Y		
		4-ISOPROPYLTOLEUNE	0.5	UG/L	U	Y		
		BENZENE	0.5	UG/L	U	Y		
		BENZENE, 1,2,4-TRIMETHYL	0.5	UG/L	U	Y		
		BENZENE, 1,3,5-TRIMETHYL-	0.5	UG/L	U	Y		
		BROMOBENZENE	0.5	UG/L	U	Y		
		BROMOCHLOROMETHANE	0.5	UG/L	U	Y		
		BROMODICHLOROMETHANE	0.5	UG/L	U	Y		
		BROMOFLUOROBENZENE	10.33	%REC		Y		
		BROMOFORM	0.5	UG/L	U	Y		
		BROMOMETHANE	0.5	UG/L	U	Y		
		CARBON TETRACHLORIDE	0.5	UG/L	U	Y	5	0
		CHLOROBENZENE	0.5	UG/L	U	Y		
		CHLOROETHANE	0.5	UG/L	U	Y		
		CHLOROFORM	0.5	UG/L	U	Y		
		CHLOROMETHANE	0.5	UG/L	U	Y		
		DIBROMOCHLOROMETHANE	0.5	UG/L	U	Y		
		DIBROMOMETHANE	0.5	UG/L	U	Y		
		DICHLORODIFLUOROMETHANE	0.5	UG/L	U	Y		
		ETHYLBENZENE	0.5	UG/L	U	Y		
		HEXACHLOROBUTADIENE	0.5	UG/L	U	Y		
		ISOPROPYLBENZENE	0.5	UG/L	U	Y		
		METHYLENE CHLORIDE	0.5	UG/L	U	Y	5	0
		NAPHTHALENE	0.5	UG/L	U	Y		
		PROPANE, 1,2-DIBROMO-3-CHLORO-	0.5	UG/L	U	Y		
		STYRENE	0.5	UG/L	U	Y		
		TETRACHLOROETHENE	0.5	UG/L	U	Y	5	0
		TOLUENE	0.5	UG/L	U	Y	2000	0
		TRICHLOROETHENE	0.5	UG/L	U	Y	5	0
		TRICHLOROFLUOROMETHANE	0.5	UG/L	U	Y		
		VINYL CHLORIDE	0.5	UG/L	U	Y		
		cis-1,2-DICHLOROETHENE	0.5	UG/L	U	Y		
		cis-1,3-DICHLOROPROPENE	0.5	UG/L	U	Y		
		m+p XYLENE	0.5	UG/L	U	Y		
		n-BUTYLBENZENE	0.5	UG/L	U	Y		
		n-PROPYLBENZENE	0.5	UG/L	U	Y		
		o-CHLOROTOLUENE	0.5	UG/L	U	Y		
		o-XYLENE	0.5	UG/L	U	Y		
		p-CHLOROTOLUENE	0.5	UG/L	U	Y		
		sec-BUTYLBENZENE	0.5	UG/L	U	Y		
		tert-BUTYLBENZENE	0.5	UG/L	U	Y		
		trans-1,2-DICHLOROETHENE	0.5	UG/L	U	Y		
		trans-1,3-DICHLOROPROPENE	0.5	UG/L	U	Y		

## Well 10592 VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01253GA	18-Aug-94	1,1,1,2-TETRACHLOROETHANE	0.5	UG/L	U	Y		
		1,1,1-TRICHLOROETHANE	0.5	UG/L	U	Y	200	0
		1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	U	Y		
		1,1,2-TRICHLOROETHANE	0.5	UG/L	U	Y		
		1,1-DICHLOROETHANE	0.5	UG/L	U	Y	5	0
		1,1-DICHLOROETHENE	0.5	UG/L	U	Y	7	0
		1,1-DICHLOROPROPENE	0.5	UG/L	U	Y		
		1,2,3-TRICHLOROBENZENE	0.5	UG/L	U	Y		
		1,2,3-TRICHLOROPROPANE	0.5	UG/L	U	Y		
		1,2,4-TRICHLOROBENZENE	0.5	UG/L	U	Y		
		1,2-DIBROMOETHANE				Z		
		1,2-DICHLOROBENZENE	0.5	UG/L	U	Y		
		1,2-DICHLOROETHANE	0.5	UG/L	U	Y	5	0
		1,2-DICHLOROPROPANE	0.5	UG/L	U	Y		
		1,3-DICHLOROBENZENE	0.5	UG/L	U	Y		
		1,3-DICHLOROPROPANE	0.5	UG/L	U	Y		
		1,4-DICHLOROBENZENE	0.5	UG/L	U	Y		
		2,2-DICHLOROPROPANE	0.5	UG/L	U	Y		
		4-ISOPROPYLtolUENE	0.5	UG/L	U	Y		
		BENZENE	0.5	UG/L	U	Y		
		BENZENE, 1,2,4-TRIMETHYL	0.5	UG/L	U	Y		
		BENZENE, 1,3,5-TRIMETHYL-	0.5	UG/L	U	Y		
		BROMOBENZENE	0.5	UG/L	U	Y		
		BROMOCHLOROMETHANE	0.5	UG/L	U	Y		
		BROMODICHLOROMETHANE	0.5	UG/L	U	Y		
		BROMOFLUOROBENZENE	8.79	%REC		Y		
		BROMOFORM	0.5	UG/L	U	Y		
		BROMOMETHANE	0.5	UG/L	U	Y		
		CARBON TETRACHLORIDE	0.5	UG/L	U	Y	5	0
		CHLOROBENZENE	0.5	UG/L	U	Y		
		CHLOROETHANE	0.5	UG/L	U	Y		
		CHLOROFORM	0.5	UG/L	U	Y		
		CHLOROMETHANE	0.5	UG/L	U	Y		
		DIBROMOCHLOROMETHANE	0.5	UG/L	U	Y		
		DIBROMOMETHANE	0.5	UG/L	U	Y		
		DICHLORODIFLUOROMETHANE	0.5	UG/L	U	Y		
		ETHYLBENZENE	0.5	UG/L	U	Y		
		HEXAChLOROBUTADIENE	0.5	UG/L	U	Y		
		ISOPROPYLBENZENE	0.5	UG/L	U	Y		
		METHYLENE CHLORIDE	2.66	UG/L		Y	5	0
		NAPHTHALENE	0.5	UG/L	U	Y		
		PROPANE, 1,2-DIBROMO-3-CHLORO-	0.5	UG/L	U	Y		
		STYRENE	0.5	UG/L	U	Y		
		TETRACHLOROETHENE	0.5	UG/L	U	Y	5	0
		TOLUENE	0.5	UG/L	U	Y	2000	0
		TRICHLOROETHENE	0.5	UG/L	U	Y	5	0
		TRICHLOROFUOROMETHANE	0.5	UG/L	U	Y		
		VINYL CHLORIDE	0.5	UG/L	U	Y		
		cis-1,2-DICHLOROETHENE	0.5	UG/L	U	Y		
		cis-1,3-DICHLOROPROPENE	0.5	UG/L	U	Y		
		m+p XYLENE	0.5	UG/L	U	Y		
		n-BUTYLBENZENE	0.5	UG/L	U	Y		
		n-PROPYLBENZENE	0.5	UG/L	U	Y		
		o-CHLOROTOLUENE	0.5	UG/L	U	Y		
		o-XYLENE	0.5	UG/L	U	Y		
		p-CHLOROTOLUENE	0.5	UG/L	U	Y		
		sec-BUTYLBENZENE	0.5	UG/L	U	Y		
		tert-BUTYLBENZENE	0.5	UG/L	U	Y		
		trans-1,2-DICHLOROETHENE	0.5	UG/L	U	Y		
		trans-1,3-DICHLOROPROPENE	0.5	UG/L	U	Y		

## Well 10692 VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01254GA	25-Aug-94	1,1,1,2-TETRACHLOROETHANE	0.2	UG/L	U	V		
		1,1,1-TRICHLOROETHANE	0.2	UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	0.2	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	0.6	UG/L	U	V		
		1,1-DICHLOROETHANE	0.2	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	0.2	UG/L	U	V	7	0
		1,1-DICHLOROPROPENE	0.1	UG/L	U	V		
		1,2,3-TRICHLOROBENZENE	0.2	UG/L	U	V		
		1,2,3-TRICHLOROPROPANE	0.4	UG/L	U	V		
		1,2,4-TRICHLOROBENZENE	0.3	UG/L	U	V		
		1,2-DIBROMOETHANE	0.3	UG/L	U	V		
		1,2-DICHLOROBENZENE	0.2	UG/L	U	V		
		1,2-DICHLOROBENZENE-D4	90	%REC		Z		
		1,2-DICHLOROETHANE	0.4	UG/L	U	V	5	0
		1,2-DICHLOROPROPANE	0.2	UG/L	U	V		
		1,3-DICHLOROBENZENE	0.2	UG/L	U	V		
		1,3-DICHLOROPROPANE	0.2	UG/L	U	V		
		1,4-DICHLOROBENZENE	0.3	UG/L	U	V		
		2,2-DICHLOROPROPANE	0.3	UG/L	U	V		
		4-ISOPROPYLTOluENE	0.2	UG/L	U	V		
		BENZENE	0.2	UG/L	U	V		
		BENZENE, 1,2,4-TRIMETHYL	0.2	UG/L	U	V		
		BROMOBENZENE	0.2	UG/L	U	V		
		BROMOCHLOROMETHANE	0.5	UG/L	U	V		
		BROMODICHLOROMETHANE	0.2	UG/L	U	V		
		BROMOFLUOROBENZENE	89	%REC		Z		
		BROMOFORM	0.3	UG/L	U	V		
		BROMOMETHANE	0.5	UG/L	U	V		
		CARBON TETRACHLORIDE	0.3	UG/L	U	V	5	0
		CHLOROBENZENE	0.2	UG/L	U	V		
		CHLOROETHANE	0.4	UG/L	U	V		
		CHLOROFORM	0.2	UG/L	U	V		
		CHLOROMETHANE	0.4	UG/L	U	V		
		DIBROMOCHLOROMETHANE	0.2	UG/L	U	V		
		DIBROMOMETHANE	0.3	UG/L	U	V		
		DICHLORODIFLUOROMETHANE	0.2	UG/L	U	V		
		ETHYLBENZENE	0.2	UG/L	U	V		
		HEXACHLOROBUTADIENE	0.2	UG/L	U	V		
		ISOPROPYLBENZENE	0.2	UG/L	U	V		
		METHYLENE CHLORIDE	0.2	UG/L	U	V	5	0
		NAPHTHALENE	0.2	UG/L	U	V		
		PROPANE, 1,2-DIBROMO-3-CHLORO-	0.4	UG/L	U	R		
		STYRENE	0.2	UG/L	U	V		
		TETRACHLOROETHENE	0.2	UG/L	U	V	5	0
		TOLUENE	0.2	UG/L	U	V	2000	0
		TRICHLOROETHENE	0.2	UG/L	U	V	5	0
		TRICHLOROFLUOROMETHANE	0.3	UG/L	U	V		
		VINYL CHLORIDE	0.2	UG/L	U	V		
		cis-1,2-DICHLOROETHENE	0.2	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	0.2	UG/L	U	V		
		m+p XYLENE	0.3	UG/L	U	V		
		n-BUTYLBENZENE	0.2	UG/L	U	V		
		n-PROPYLBENZENE	0.2	UG/L	U	V		
		o-CHLOROTOLUENE	0.3	UG/L	U	V		
		o-XYLENE	0.2	UG/L	U	V		
		p-CHLOROTOLUENE	0.2	UG/L	U	V		
		sec-BUTYLBENZENE	0.2	UG/L	U	V		
		tert-BUTYLBENZENE	0.2	UG/L	U	V		
		trans-1,2-DICHLOROETHENE	0.2	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	0.4	UG/L	U	V		

## Well 10792 VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01255GA	25-Aug-94	1,1,1,2-TETRACHLOROETHANE	0.2	UG/L	U	V		
		1,1,1-TRICHLOROETHANE	0.2	UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	0.2	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	0.6	UG/L	U	V		
		1,1-DICHLOROETHANE	0.2	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	0.2	UG/L	U	V	7	0
		1,1-DICHLOROPROPENE	0.1	UG/L	U	V		
		1,2,3-TRICHLOROBENZENE	0.2	UG/L	U	V		
		1,2,3-TRICHLOROPROPANE	0.4	UG/L	U	V		
		1,2,4-TRICHLOROBENZENE	0.3	UG/L	U	V		
		1,2-DIBROMOETHANE	0.3	UG/L	U	V		
		1,2-DICHLOROBENZENE	0.2	UG/L	U	V		
		1,2-DICHLOROBENZENE-D4	96 %REC		Z			
		1,2-DICHLOROETHANE	0.4	UG/L	U	V	5	0
		1,2-DICHLOROPROPANE	0.2	UG/L	U	V		
		1,3-DICHLOROBENZENE	0.2	UG/L	U	V		
		1,3-DICHLOROPROPANE	0.2	UG/L	U	V		
		1,4-DICHLOROBENZENE	0.3	UG/L	U	V		
		2,2-DICHLOROPROPANE	0.3	UG/L	U	V		
		4-ISOPROPYLtolUENE	0.2	UG/L	U	V		
		BENZENE	0.2	UG/L	U	V		
		BENZENE, 1,2,4-TRIMETHYL	0.2	UG/L	U	V		
		BENZENE, 1,3,5-TRIMETHYL-	0.2	UG/L	U	V		
		BROMOBENZENE	0.2	UG/L	U	V		
		BROMOCHLOROMETHANE	0.5	UG/L	U	V		
		BROMODICHLOROMETHANE	0.2	UG/L	U	V		
		BROMOFLUOROBENZENE	90 %REC		Z			
		BROMOFORM	0.3	UG/L	U	V		
		BROMOMETHANE	0.5	UG/L	U	V		
		CARBON TETRACHLORIDE	0.3	UG/L	U	V	5	0
		CHLOROBENZENE	0.2	UG/L	U	V		
		CHLOROETHANE	0.4	UG/L	U	V		
		CHLOROFORM	0.2	UG/L	J	A		
		CHLOROMETHANE	0.4	UG/L	U	V		
		DIBROMOCHLOROMETHANE	0.2	UG/L	U	V		
		DIBROMOMETHANE	0.3	UG/L	U	V		
		DICHLORODIFLUOROMETHANE	0.2	UG/L	U	V		
		ETHYLBENZENE	0.2	UG/L	U	V		
		HEXACHLOROBUTADIENE	0.2	UG/L	U	V		
		ISOPROPYLBENZENE	0.2	UG/L	U	V		
		METHYLENE CHLORIDE	0.2	UG/L	U	V	5	0
		NAPHTHALENE	0.2	UG/L	U	V		
		PROPANE, 1,2-DIBROMO-3-CHLOROSTYRENE	0.4	UG/L	U	R		
		TETRACHLOROETHENE	0.2	UG/L	U	V		
		TOLUENE	0.8	UG/L		V	5	0
		TRICHLOROETHENE	4	UG/L		V	2000	0
		TRICHLOROFLUOROMETHANE	0.2	UG/L	U	V	5	0
		VINYL CHLORIDE	0.3	UG/L	U	V		
		cis-1,2-DICHLOROETHENE	0.2	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	0.2	UG/L	U	V		
		m+p XYLENE	0.3	UG/L	U	V		
		n-BUTYLBENZENE	0.2	UG/L	U	V		
		n-PROPYLBENZENE	0.2	UG/L	U	V		
		o-CHLOROTOLUENE	0.3	UG/L	U	V		
		o-XYLENE	0.2	UG/L	U	V		
		p-CHLOROTOLUENE	0.2	UG/L	U	V		
		sec-BUTYLBENZENE	0.2	UG/L	U	V		
		tert-BUTYLBENZENE	0.2	UG/L	U	V		
		trans-1,2-DICHLOROETHENE	0.2	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	0.4	UG/L	U	V		

## Well 10992 VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01256GA	18-Aug-94	1,1,1,2-TETRACHLOROETHANE	0.5	UG/L	U	Y		
		1,1,1-TRICHLOROETHANE	0.5	UG/L	U	Y	200	0
		1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	U	Y		
		1,1,2-TRICHLOROETHANE	0.5	UG/L	U	Y		
		1,1-DICHLOROETHANE	0.5	UG/L	U	Y	5	0
		1,1-DICHLOROETHENE	0.5	UG/L	U	Y	7	0
		1,1-DICHLOROPROPENE	0.5	UG/L	U	Y		
		1,2,3-TRICHLOROBENZENE	0.5	UG/L	U	Y		
		1,2,3-TRICHLOROPROPANE	0.5	UG/L	U	Y		
		1,2,4-TRICHLOROBENZENE	0.5	UG/L	U	Y		
		1,2-DIBROMOETHANE				Z		
		1,2-DICHLOROBENZENE	0.5	UG/L	U	Y		
		1,2-DICHLOROETHANE	0.5	UG/L	U	Y	5	0
		1,2-DICHLOROPROPANE	0.5	UG/L	U	Y		
		1,3-DICHLOROBENZENE	0.5	UG/L	U	Y		
		1,3-DICHLOROPROPANE	0.5	UG/L	U	Y		
		1,4-DICHLOROBENZENE	0.5	UG/L	U	Y		
		2,2-DICHLOROPROPANE	0.5	UG/L	U	Y		
		4-ISOPROPYLTOLEUNE	0.5	UG/L	U	Y		
		BENZENE	0.5	UG/L	U	Y		
		BENZENE, 1,2,4-TRIMETHYL	0.5	UG/L	U	Y		
		BENZENE, 1,3,5-TRIMETHYL-	0.5	UG/L	U	Y		
		BROMOBENZENE	0.5	UG/L	U	Y		
		BROMOCHLOROMETHANE	0.5	UG/L	U	Y		
		BROMODICHLOROMETHANE	0.5	UG/L	U	Y		
		BROMOFLUOROBENZENE	9 %REC			Y		
		BROMOFORM	0.5	UG/L	U	Y		
		BROMOMETHANE	0.5	UG/L	U	Y		
		CARBON TETRACHLORIDE	0.5	UG/L	U	Y	5	0
		CHLOROBENZENE	0.5	UG/L	U	Y		
		CHLOROETHANE	0.5	UG/L	U	Y		
		CHLOROFORM	0.5	UG/L	U	Y		
		CHLOROMETHANE	0.5	UG/L	U	Y		
		DIBROMOCHLOROMETHANE	0.5	UG/L	U	Y		
		DIBROMOMETHANE	0.5	UG/L	U	Y		
		DICHLORODIFLUOROMETHANE	0.5	UG/L	U	Y		
		ETHYLBENZENE	0.5	UG/L	U	Y		
		HEXACHLOROBUTADIENE	0.5	UG/L	U	Y		
		ISOPROPYLBENZENE	0.5	UG/L	U	Y		
		METHYLENE CHLORIDE	0.5	UG/L	U	Y	5	0
		NAPHTHALENE	0.5	UG/L	U	Y		
		PROPANE, 1,2-DIBROMO-3-CHLORO-	0.5	UG/L	U	Y		
		STYRENE	0.5	UG/L	U	Y		
		TETRACHLOROETHENE	0.923	UG/L		Y	5	0
		TOLUENE	0.5	UG/L	U	Y	2000	0
		TRICHLOROETHENE	0.5	UG/L	U	Y	5	0
		TRICHLOROFLUOROMETHANE	0.5	UG/L	U	Y		
		VINYL CHLORIDE	0.5	UG/L	U	Y		
		cis-1,2-DICHLOROETHENE	0.5	UG/L	U	Y		
		cis-1,3-DICHLOROPROPENE	0.5	UG/L	U	Y		
		m+p XYLENE	0.5	UG/L	U	Y		
		n-BUTYLBENZENE	0.5	UG/L	U	Y		
		n-PROPYLBENZENE	0.5	UG/L	U	Y		
		o-CHLOROTOLUENE	0.5	UG/L	U	Y		
		o-XYLENE	0.5	UG/L	U	Y		
		p-CHLOROTOLUENE	0.5	UG/L	U	Y		
		sec-BUTYLBENZENE	0.5	UG/L	U	Y		
		tert-BUTYLBENZENE	0.5	UG/L	U	Y		
		trans-1,2-DICHLOROETHENE	0.5	UG/L	U	Y		
		trans-1,3-DICHLOROPROPENE	0.5	UG/L	U	Y		

## Well 11092 VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01257GA	18-Aug-94	1,1,1,2-TETRACHLOROETHANE	0.5	UG/L	U	Y		
		1,1,1-TRICHLOROETHANE	0.5	UG/L	U	Y	200	0
		1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	U	Y		
		1,1,2-TRICHLOROETHANE	0.5	UG/L	U	Y		
		1,1-DICHLOROETHANE	0.5	UG/L	U	Y	5	0
		1,1-DICHLOROETHENE	0.5	UG/L	U	Y	7	0
		1,1-DICHLOROPROPENE	0.5	UG/L	U	Y		
		1,2,3-TRICHLOROBENZENE	0.5	UG/L	U	Y		
		1,2,3-TRICHLOROPROPANE	0.5	UG/L	U	Y		
		1,2,4-TRICHLOROBENZENE	0.5	UG/L	U	Y		
		1,2-DIBROMOETHANE				Z		
		1,2-DICHLOROBENZENE	0.5	UG/L	U	Y		
		1,2-DICHLOROETHANE	0.5	UG/L	U	Y	5	0
		1,2-DICHLOROPROPANE	0.5	UG/L	U	Y		
		1,3-DICHLOROBENZENE	0.5	UG/L	U	Y		
		1,3-DICHLOROPROPANE	0.5	UG/L	U	Y		
		1,4-DICHLOROBENZENE	0.5	UG/L	U	Y		
		2,2-DICHLOROPROPANE	0.5	UG/L	U	Y		
		4-ISOPROPYLTOluENE	0.5	UG/L	U	Y		
		BENZENE	0.5	UG/L	U	Y		
		BENZENE, 1,2,4-TRIMETHYL	0.5	UG/L	U	Y		
		BENZENE, 1,3,5-TRIMETHYL-	0.5	UG/L	U	Y		
		BROMOBENZENE	0.5	UG/L	U	Y		
		BROMOCHLOROMETHANE	0.5	UG/L	U	Y		
		BROMODICHLOROMETHANE	0.5	UG/L	U	Y		
		BROMOFLUOROBENZENE	11.61	%REC		Y		
		BROMOFORM	0.5	UG/L	U	Y		
		BROMOMETHANE	0.5	UG/L	U	Y		
		CARBON TETRACHLORIDE	0.5	UG/L	U	Y	5	0
		CHLOROBENZENE	0.5	UG/L	U	Y		
		CHLOROETHANE	0.5	UG/L	U	Y		
		CHLOROFORM	0.5	UG/L	U	Y		
		CHLOROMETHANE	0.5	UG/L	U	Y		
		DIBROMOCHLOROMETHANE	0.5	UG/L	U	Y		
		DIBROMOMETHANE	0.5	UG/L	U	Y		
		DICHLORODIFLUOROMETHANE	0.5	UG/L	U	Y		
		ETHYLBENZENE	0.5	UG/L	U	Y		
		HEXACHLOROBUTADIENE	0.5	UG/L	U	Y		
		ISOPROPYLBENZENE	0.5	UG/L	U	Y		
		METHYLENE CHLORIDE	0.5	UG/L	U	Y	5	0
		NAPHTHALENE	0.5	UG/L	U	Y		
		PROPANE, 1,2-DIBROMO-3-CHLORO-	0.5	UG/L	U	Y		
		STYRENE	0.5	UG/L	U	Y		
		TETRACHLOROETHENE	0.5	UG/L	U	Y	5	0
		TOLUENE	0.5	UG/L	U	Y	2000	0
		TRICHLOROETHENE	0.5	UG/L	U	Y	5	0
		TRICHLOROFLUOROMETHANE	0.5	UG/L	U	Y		
		VINYL CHLORIDE	0.5	UG/L	U	Y		
		cis-1,2-DICHLOROETHENE	0.5	UG/L	U	Y		
		cis-1,3-DICHLOROPROPENE	0.5	UG/L	U	Y		
		m+p XYLENE	0.5	UG/L	U	Y		
		n-BUTYLBENZENE	0.5	UG/L	U	Y		
		n-PROPYLBENZENE	0.5	UG/L	U	Y		
		o-CHLOROTOLUENE	0.5	UG/L	U	Y		
		o-XYLENE	0.5	UG/L	U	Y		
		p-CHLOROTOLUENE	0.5	UG/L	U	Y		
		sec-BUTYLBENZENE	0.5	UG/L	U	Y		
		tert-BUTYLBENZENE	0.5	UG/L	U	Y		
		trans-1,2-DICHLOROETHENE	0.5	UG/L	U	Y		
		trans-1,3-DICHLOROPROPENE	0.5	UG/L	U	Y		

## Well 35691 VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01356GA	8-Sep-94	1,1,1,2-TETRACHLOROETHANE	0.2	UG/L	U	Y		
		1,1,1-TRICHLOROETHANE	0.2	UG/L	U	Y	200	0
		1,1,2,2-TETRACHLOROETHANE	0.2	UG/L	U	Y		
		1,1,2-TRICHLOROETHANE	0.6	UG/L	U	Y		
		1,1-DICHLOROETHANE	0.2	UG/L	U	Y	5	0
		1,1-DICHLOROETHENE	0.2	UG/L	U	Y	7	0
		1,1-DICHLOROPROPENE	0.1	UG/L	U	Y		
		1,2,3-TRICHLOROBENZENE	0.2	UG/L	U	Y		
		1,2,3-TRICHLOROPROPANE	0.4	UG/L	U	Y		
		1,2,4-TRICHLOROBENZENE	0.3	UG/L	U	Y		
		1,2-DIBROMOETHANE	0.3	UG/L	U	Y		
		1,2-DICHLOROBENZENE	0.2	UG/L	U	Y		
		1,2-DICHLOROBENZENE-D4	94	%REC		Y		
		1,2-DICHLOROETHANE	0.4	UG/L	U	Y	5	0
		1,2-DICHLOROPROPANE	0.2	UG/L	U	Y		
		1,3-DICHLOROBENZENE	0.2	UG/L	U	Y		
		1,3-DICHLOROPROPANE	0.2	UG/L	U	Y		
		1,4-DICHLOROBENZENE	0.3	UG/L	U	Y		
		2,2-DICHLOROPROPANE	0.3	UG/L	U	Y		
		4-ISOPROPYLTOluENE	0.2	UG/L	U	Y		
		BENZENE	0.2	UG/L	U	Y		
		BENZENE, 1,2,4-TRIMETHYL	0.2	UG/L	U	Y		
		BROMOBENZENE	0.2	UG/L	U	Y		
		BROMOCHLOROMETHANE	0.5	UG/L	U	Y		
		BROMODICHLOROMETHANE	0.2	UG/L	U	Y		
		BROMOFLUOROBENZENE	92	%REC		Y		
		BROMOFORM	0.3	UG/L	U	Y		
		BROMOMETHANE	0.5	UG/L	U	Y		
		CARBON TETRACHLORIDE	0.3	UG/L	U	Y	5	0
		CHLOROBENZENE	0.2	UG/L	U	Y		
		CHLOROETHANE	0.4	UG/L	U	Y		
		CHLOROFORM	0.2	UG/L	U	Y		
		CHLOROMETHANE	0.4	UG/L	U	Y		
		DIBROMOCHLOROMETHANE	0.2	UG/L	U	Y		
		DIBROMOMETHANE	0.3	UG/L	U	Y		
		DICHLORODIFLUOROMETHANE	0.2	UG/L	U	Y		
		ETHYLBENZENE	0.2	UG/L	U	Y		
		HEXACHLOROBUTADIENE	0.2	UG/L	U	Y		
		ISOPROPYLBENZENE	0.2	UG/L	U	Y		
		METHYLENE CHLORIDE	0.2	UG/L	U	Y	5	0
		NAPHTHALENE	0.2	UG/L	U	Y		
		PROPANE, 1,2-DIBROMO-3-CHLOROSTYRENE	0.4	UG/L	U	Y		
		TETRACHLOROETHENE	0.2	UG/L	U	Y	5	0
		TOLUENE	0.2	UG/L	U	Y	2000	0
		TRICHLOROETHENE	0.2	UG/L	U	Y	5	0
		TRICHLOROFLUOROMETHANE	0.3	UG/L	U	Y		
		VINYL CHLORIDE	0.2	UG/L	U	Y		
		cis-1,2-DICHLOROETHENE	0.2	UG/L	U	Y		
		cis-1,3-DICHLOROPROPENE	0.2	UG/L	U	Y		
		m+p XYLENE	0.3	UG/L	U	Y		
		n-BUTYLBENZENE	0.2	UG/L	U	Y		
		n-PROPYLBENZENE	0.2	UG/L	U	Y		
		o-CHLOROTOLUENE	0.3	UG/L	U	Y		
		o-XYLENE	0.2	UG/L	U	Y		
		p-CHLOROTOLUENE	0.2	UG/L	U	Y		
		sec-BUTYLBENZENE	0.2	UG/L	U	Y		
		tert-BUTYLBENZENE	0.2	UG/L	U	Y		
		trans-1,2-DICHLOROETHENE	0.2	UG/L	U	Y		
		trans-1,3-DICHLOROPROPENE	0.4	UG/L	U	Y		

Well 10492 Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual	Vqual	ARAR	# SAM > ARAR
GW01252GA	18-Aug-94	ALUMINUM	31	UG/L	U	Y	5000	0
		ANTIMONY	46	UG/L	U	Y	60	0
		ARSENIC	3	UG/L	UW	Y	50	0
		BARIUM	30.8	UG/L	J	Y	1000	0
		BERYLLIUM	1	UG/L	U	Y	100	0
		CADMIUM	3	UG/L	U	Y	10	0
		CALCIUM	129000	UG/L		Y		
		CESIUM	22	UG/L	JN	Y		
		CHROMIUM	4	UG/L	U	Y	50	0
		COBALT	8	UG/L	U	Y		
		COPPER	2	UG/L	U	Y	200	0
		IRON	10	UG/L	U	Y	300	0
		LEAD	2	UG/L	U	Y	50	0
		LITHIUM	184	UG/L	J	Y	2500	0
		MAGNESIUM	51200	UG/L		Y		
		MANGANESE	2	UG/L	U	Y	50	0
		MERCURY	0.2	UG/L	U	Y	2	0
		MOLYBDENUM	14	UG/L	U	Y	100	0
		NICKEL	8	UG/L	U	Y	200	0
		POTASSIUM	3650	UG/L	J	Y		
		SELENIUM	637	UG/L		Y	10	1
		SILICON	6740	UG/L		Y		
		SILVER	4	UG/L	U	Y	50	0
		SODIUM	148000	UG/L		Y		
		STRONTIUM	1560	UG/L		Y		
		THALLIUM	4	UG/L	UW	Y	10	0
		TIN	27	UG/L	U	Y		
		VANADIUM	4	UG/L	U	Y	100	0
		ZINC	3	UG/L	U	Y	2000	0

Well 10692 Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual	Vqual	ARAR	# SAM > ARAR
GW01254GA	25-Aug-94	ALUMINUM	12	UG/L	U	V	5000	0
		ANTIMONY	14.2	UG/L	B	V	60	0
		ARSENIC	2	UG/L	U	V	50	0
		BARIUM	61.7	UG/L	B	V	1000	0
		BERYLLIUM	1	UG/L	U	V	100	0
		CADMIUM	3	UG/L	U	V	10	0
		CALCIUM	162000	UG/L		V		
		CESIUM	60	UG/L	U	JA		
		CHROMIUM	2	UG/L	U	V	50	0
		COBALT	3	UG/L	U	V		
		COPPER	2	UG/L	U	V	200	0
		IRON	3.5	UG/L	U	JA	300	0
		LEAD	1	UG/L	U	V	50	0
		LITHIUM	25.8	UG/L	B	V	2500	0
		MAGNESIUM	48900	UG/L		V		
		MANGANESE	20.8	UG/L		V	50	0
		MERCURY	0.2	UG/L	U	V	2	0
		MOLYBDENUM	5.1	UG/L	U	JA	100	0
		NICKEL	6	UG/L	U	V	200	0
		POTASSIUM	430	UG/L	B	JA		
		SELENIUM	2	UG/L	UWN	R	10	0
		SILICON	7830	UG/L		V		
		SILVER	2	UG/L	UN	JA	50	0
		SODIUM	206000	UG/L		V		
		STRONTIUM	1440	UG/L		V		
		THALLIUM	1	UG/L	UWN	JA	10	0
		TIN	12	UG/L	U	V		
		VANADIUM	2	UG/L	U	JA	100	0
		ZINC	12.1	UG/L	U	JA	2000	0

Well 35691 Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual	Vqual	ARAR	# SAM > ARAR
GW01356GA	8-Sep-94	ALUMINUM	31	UG/L	U	Y	5000	0
		ANTIMONY	46	UG/L	U	Y	60	0
		ARSENIC	2	UG/L	U	Y	50	0
		BARIUM	50.9	UG/L	B	Y	1000	0
		BERYLLIUM	1	UG/L	U	Y	100	0
		CADMIUM	3	UG/L	U	Y	10	0
		CALCIUM	255000	UG/L		Y		
		CESIUM	42	UG/L	B	Y		
		CHROMIUM	4	UG/L	U	Y	50	0
		COBALT	8	UG/L	U	Y		
		COPPER	2.5	UG/L	B	Y	200	0
		IRON	10	UG/L	U	Y	300	0
		LEAD	2	UG/L	U	Y	50	0
		LITHIUM	28.9	UG/L	B	Y	2500	0
		MAGNESIUM	63700	UG/L		Y		
		MANGANESE	2	UG/L	U	Y	50	0
		MERCURY	0.2	UG/L	U	Y	2	0
		MOLYBDENUM	14	UG/L	U	Y	100	0
		NICKEL	8	UG/L	U	Y	200	0
		POTASSIUM	1460	UG/L	B	Y		
		SELENIUM	21	UG/L		Y	10	1
		SILICON	8100	UG/L		Y		
		SILVER	4	UG/L	U	Y	50	0
		SODIUM	161000	UG/L		Y		
		STRONTIUM	1840	UG/L		Y		
		THALLIUM	3	UG/L	U	Y	10	0
		TIN	68.1	UG/L	B	Y		
		VANADIUM	4	UG/L	U	Y	100	0
		ZINC	3	UG/L	U	Y	2000	0

Well 10492 Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01074GA	28-Jul-94	TOX	0.186	MG/L		JA		
GW01252GA	18-Aug-94	AMMONIA	3.334	MG/L		JA		
		BICARBONATE AS CACO3	292.55	MG/L		V		
		CARBONATE AS CACO3	1.34	MG/L	B	V		
		CHLORIDE	141.903	MG/L		V	250	0
		FLUORIDE	1	MG/L		V		
		NITRATE/NITRITE	7.107	MG/L		V	10	0
		SPECIFIC CONDUCTIVITY	1663.7	UMHOS/CM		V		
		SULFATE	304.083	MG/L		V	250	1
		TOTAL DISSOLVED SOLIDS	1062	MG/L		V	400	1
		TOTAL SUSPENDED SOLIDS	161	MG/L		V		
		TOX	0.02	MG/L	H	JA		
GW01435GA	14-Sep-94	TOX	0.01	MG/L		JA		

Well 10592 Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01075GA	28-Jul-94	TOX	0.048	MG/L		JA		
GW01253GA	18-Aug-94	AMMONIA	2.955	MG/L		JA		
		BICARBONATE AS CACO3	229.13	MG/L		V		
		CARBONATE AS CACO3	1.06	MG/L	B	V		
		CHLORIDE	204.762	MG/L		V	250	0
		FLUORIDE	2.29	MG/L		V		
		NITRATE/NITRITE	7.556	MG/L		V	10	0
		SPECIFIC CONDUCTIVITY	1917.7	UMHOS/CM		V		
		SULFATE	383.739	MG/L		V	250	1
		TOTAL DISSOLVED SOLIDS	1249	MG/L		V	400	1
		TOTAL SUSPENDED SOLIDS	77	MG/L		V		
		TOX	0.053	MG/L	H	JA		
GW01436GA	14-Sep-94	TOX	0.033	MG/L		JA		

Well 10692 Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01076GA	28-Jul-94	TOX	0.146	MG/L		JA		
GW01254GA	25-Aug-94	AMMONIA	0.1	MG/L	U	V		
		BICARBONATE AS CACO3	760	MG/L		V		
		CARBONATE AS CACO3	1	MG/L	U	V		
		CHLORIDE	140	MG/L		V	250	0
		CYANIDE	0.01	MG/L	U	V		
		FLUORIDE	2	MG/L		V		
		NITRATE/NITRITE	0.13	MG/L	JA	10	0	
		ORTHOPHOSPHATE	0.06	MG/L		V		
		SPECIFIC CONDUCTIVITY	1900	UMHOS/CM		V		
		SULFATE	230	MG/L		V	250	0
		TOTAL DISSOLVED SOLIDS	1200	MG/L		V	400	1
		TOTAL SUSPENDED SOLIDS	46	MG/L		V		
		TOX	0.075	MG/L		JA		
GW01437GA	14-Sep-94	TOX	0.036	MG/L		JA		

Well 10792 Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01077GA	28-Jul-94	TOX		0.056 MG/L		JA		
GW01255GA	25-Aug-94	AMMONIA NITRATE/NITRITE TOX		0.3 MG/L 6.6 MG/L 0.083 MG/L	V V JA		10	0
GW01438GA	14-Sep-94	TOX		0.02 MG/L	JA			

Well 10992 Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01078GA	28-Jul-94	TOX		0.048 MG/L		JA		
GW01256GA	18-Aug-94	TOX		0.046 MG/L	H	JA		
GW01439GA	14-Sep-94	TOX		0.007 MG/L		JA		

Well 11092 Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01079GA	28-Jul-94	TOX		0.091 MG/L		JA		
GW01440GA	14-Sep-94	TOX		0.018 MG/L		JA		

Well 35691 Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
GW01356GA	8-Sep-94	AMMONIA BICARBONATE AS CACO <sub>3</sub> CARBONATE AS CACO <sub>3</sub> CHLORIDE CYANIDE FLUORIDE NITRATE/NITRITE ORTHOPHOSPHATE SPECIFIC CONDUCTIVITY SULFATE TOTAL DISSOLVED SOLIDS TOTAL SUSPENDED SOLIDS	0.035 MG/L 479.5 MG/L 3.57 MG/L 148.631 MG/L 0.0082 MG/L 1.181 MG/L 0.118 MG/L 0.014 MG/L 2133.7 UMHOS/CM 472.005 MG/L 1550 MG/L 14 MG/L		B Y Y B Y Y Y B Y Y Y		250 10 250 400	0 0 1 1

**Well 10492 Rads July - September 1994**

Sample Number	Sample Date	Isotope	Result	Unit Meas	Error	Qual	Vqual	ARAR	# SAM > ARAR
GW01252GA	18-Aug-94	GROSS ALPHA	25.4613039	PCI/L	10.3936799	C	Y	15	1
		GROSS BETA	16.6049205	PCI/L	6.81247548	C	Y	50	0
		RADIUM-226	0.392	PCI/L	0.236		Y		
		TRITIUM	-10.96	PCI/L	133.41		Y	20000	0
		URANIUM-233,-234	17.2368041	PCI/L	2.63651884		Y		
		URANIUM-235	0.77643235	PCI/L	0.55258746		Y		
		URANIUM-238	11.2272117	PCI/L	2.08641439		Y		
		TOTAL URANIUM	29.2404482		5.27552069			40	0

**Well 10692 Rads July - September 1994**

Sample Number	Sample Date	Isotope	Result	Unit Meas	Error	Qual	Vqual	ARAR	# SAM > ARAR
GW01254GA	25-Aug-94	AMERICIUM-241	0.00684889	PCI/L	0.00711147		Y	4	0
		GROSS ALPHA	9.97675465	PCI/L	2.98384361	C	Y	15	0
		GROSS BETA	2.5638195	PCI/L	1.42533675		Y	50	0
		PLUTONIUM-239/240	0.0022771	PCI/L	0.00315796		Y	15	0
		RADIUM-226	0.281	PCI/L	0.193		Y		
		STRONTIUM-89,90	0.1908	PCI/L	0.3489		Y	8	0
		TOTAL RADIOCESIUM	0.73121278	PCI/L	0.3579422		Y		
		TRITIUM	155.82	PCI/L	160.38		Y	20000	0
		TRITIUM	1.3	PCI/L	135.91		Y	20000	0
		URANIUM-233,-234	15.3129576	PCI/L	1.58962314		Y		
		URANIUM-235	2.25	PCI/L	0.5436035		Y		
		URANIUM-238	13.1600719	PCI/L	1.44177818		Y		
		TOTAL URANIUM	30.7230295		3.57500482			40	0

**Well 10792 Rads July - September 1994**

Sample Number	Sample Date	Isotope	Result	Unit Meas	Error	Qual	Vqual	ARAR	# SAM > ARAR
GW01255GA	25-Aug-94	TRITIUM		143.86 PCI/L	158.57		Y	20000	0

**Well 35691 Rads July - September 1994**

Sample Number	Sample Date	Isotope	Result	Unit Meas	Error	Qual	Vqual	ARAR	# SAM > ARAR
GW01356GA	8-Sep-94	AMERICIUM-241	0	PCI/L	1.6499041	YU	Y	4	0
		GROSS ALPHA	24.982323	PCI/L	12.521722	C	Y	15	1
		GROSS BETA	10.4567944	PCI/L	8.57440279	C	Y	50	0
		PLUTONIUM-239/240	0	PCI/L	0.00491485		Y	15	0
		RADIUM-226	0.424	PCI/L	0.196		Y		
		STRONTIUM-89,90	-0.0572	PCI/L	0.3061		Y	8	0
		TOTAL RADIOCESIUM	0.52203017	PCI/L	0.32622061		Y		
		TRITIUM	36.58	PCI/L	143.2		Y	20000	0
		URANIUM-233,-234	18.6134626	PCI/L	2.27526523		Y		
		URANIUM-235	2.50777087	PCI/L	0.77196142		Y		
		URANIUM-238	15.1465364	PCI/L	2.01668741		Y		
		TOTAL URANIUM	36.2677699		5.06391406			40	0

# **APPENDIX B**

## 881 French Drain Sump VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10271RG	5-Jul-94	1,1,1-TRICHLOROETHANE	5 UG/L	U	V	200	0	
		1,1,2,2-TETRACHLOROETHANE	5 UG/L	U	V			
		1,1,2-TRICHLOROETHANE	5 UG/L	U	V			
		1,1-DICHLOROETHANE	5 UG/L	U	V	5	0	
		1,1-DICHLOROETHENE	5 UG/L	U	V	7	0	
		1,2 DICHLOROETHANE -D4	94 %REC		Z			
		1,2,4-TRICHLOROBENZENE	10 UG/L	U	V			
		1,2-DICHLOROBENZENE	10 UG/L	U	V			
		1,2-DICHLOROETHANE	5 UG/L	U	V	5	0	
		1,2-DICHLOROETHENE	5 UG/L	U	V			
		1,2-DICHLOROPROPANE	5 UG/L	U	V			
		1,3-DICHLOROBENZENE	10 UG/L	U	V			
		1,4-DICHLOROBENZENE	10 UG/L	U	V			
		2,4,5-TRICHLOROPHENOL	50 UG/L	U	V			
		2,4,6-TRIBROMOPHENOL	61 %REC		Z			
		2,4,6-TRICHLOROPHENOL	10 UG/L	U	V			
		2,4-DICHLOROPHENOL	10 UG/L	U	V			
		2,4-DIMETHYLPHENOL	10 UG/L	U	V			
		2,4-DINITROPHENOL	50 UG/L	U	V			
		2,4-DINITROTOLUENE	10 UG/L	U	V			
		2,6-DINITROTOLUENE	10 UG/L	U	V			
		2-BUTANONE	10 UG/L	U	R			
		2-CHLORONAPHTHALENE	10 UG/L	U	V			
		2-CHLOROPHENOL	10 UG/L	U	V			
		2-FLUOROBIPHENYL	51 %REC		Z			
		2-HEXANONE	10 UG/L	U	V			
		2-METHYLNAPHTHALENE	10 UG/L	U	V			
		2-METHYLPHENOL	10 UG/L	U	V			
		2-NITROANILINE	50 UG/L	U	V			
		2-NITROPHENOL	10 UG/L	U	V			
		3,3'-DICHLOROBENZIDINE	20 UG/L	U	V			
		3-NITROANILINE	50 UG/L	U	R			
		4,6-DINITRO-2-METHYLPHENOL	50 UG/L	U	V			
		4-CHLORO-3-METHYLPHENOL	10 UG/L	U	V			
		4-CHLOROANILINE	10 UG/L	U	V			
		4-CHLOROPHENYL PHENYL ETHER	10 UG/L	U	V			
		4-METHYL-2-PENTANONE	10 UG/L	U	V			
		4-METHYLPHENOL	10 UG/L	U	V			
		4-NITROANILINE	50 UG/L	U	V			
		4-NITROPHENOL	50 UG/L	U	V			
		ACENAPHTHENE	10 UG/L	U	V			
		ACENAPHTHYLENE	10 UG/L	U	V			
		ACETONE	10 UG/L	U	R			
		ANTHRACENE	10 UG/L	U	V			
		BENZENE	5 UG/L	U	V			
		BENZO(a)ANTHRACENE	10 UG/L	U	V			
		BENZO(a)PYRENE	10 UG/L	U	V			
		BENZO(b)FLUORANTHENE	10 UG/L	U	V			
		BENZO(ghi)PERYLENE	10 UG/L	U	V			
		BENZO(k)FLUORANTHENE	10 UG/L	U	V			
		BENZOIC ACID	50 UG/L	U	V			
		BENZYL ALCOHOL	10 UG/L	U	V			
		BIS(2-CHLOROETHOXY)METHANE	10 UG/L	U	V			
		BIS(2-CHLOROETHYL)ETHER	10 UG/L	U	V			
		BIS(2-CHLOROISOPROPYL)ETHER	10 UG/L	U	V			
		BIS(2-ETHYLHEXYL)PHTHALATE	3 UG/L	J	A			
		BROMODICHLOROMETHANE	5 UG/L	U	V			
		BROMOFLUOROBENZENE	94 %REC		Z			
		BROMOFORM	5 UG/L	U	V			
		BROMOMETHANE	10 UG/L	U	V			

## 881 French Drain Sump VOA July - September 1994

FT10271RG	5-Jul-94	BUTYL BENZYL PHTHALATE	10 UG/L	U	V		
		CARBON DISULFIDE	5 UG/L	U	V		
		CARBON TETRACHLORIDE	5 UG/L	U	V	5	0
		CHLOROBENZENE	5 UG/L	U	V		
		CHLOROETHANE	10 UG/L	U	V		
		CHLOROFORM	5 UG/L	U	V		
		CHLOROMETHANE	10 UG/L	U	V		
		CHRYSENE	10 UG/L	U	V		
		Di-n-BUTYL PHTHALATE	10 UG/L	U	V		
		Di-n-OCTYL PHTHALATE	10 UG/L	U	V		
		DIBENZO(a,h)ANTHRACENE	10 UG/L	U	V		
		DIBENZOFURAN	10 UG/L	U	V		
		DOBROMOCHLOROMETHANE	5 UG/L	U	V		
		DIETHYL PHTHALATE	10 UG/L	U	V		
		DIMETHYL PHTHALATE	10 UG/L	U	V		
		ETHYLBENZENE	5 UG/L	U	V		
		FLUORANTHENE	10 UG/L	U	V		
		FLUORENE	10 UG/L	U	V		
		HEXACHLOROBENZENE	10 UG/L	U	V		
		HEXACHLOROBUTADIENE	10 UG/L	U	V		
		HEXACHLOROCYCLOPENTADIENE	10 UG/L	U	V		
		HEXACHLOROETHANE	10 UG/L	U	V		
		INDENO(1,2,3-cd)PYRENE	10 UG/L	U	V		
		ISOPHORONE	10 UG/L	U	V		
		METHYLENE CHLORIDE	5 UG/L	U	V	5	0
		N-NITROSO-DI-n-PROPYLAMINE	10 UG/L	U	V		
		N-NITROSODIPHENYLAMINE	10 UG/L	U	V		
		NAPHTHALENE	10 UG/L	U	V		
		NITROBENZENE	10 UG/L	U	V		
		NITROBENZENE-D5	51 %REC		Z		
		PENTACHLOROPHENOL	50 UG/L	U	V		
		PHENANTHRENE	10 UG/L	U	V		
		PHENOL	10 UG/L	U	V		
		PHENOL-D5	21 %REC		Z		
		PYRENE	10 UG/L	U	V		
		STYRENE	5 UG/L	U	V		
		TERPHENYL-D14	88 %REC		Z		
		TETRACHLOROETHENE	5 UG/L	U	V	5	0
		TOLUENE	5 UG/L	U	V	2000	0
		TOLUENE - D8	97 %REC		Z		
		TOTAL XYLEMES	5 UG/L	U	V		
		TRICHLOROETHENE	5 UG/L	U	V	5	0
		VINYL ACETATE	10 UG/L	U	V		
		VINYL CHLORIDE	10 UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5 UG/L	U	V		
		o-FLUOROPHENOL	28 %REC		Z		
		p-BROMODIPHENYL ETHER	10 UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5 UG/L	U	V		
FT10295RG	11-Aug-94	1,1,1-TRICHLOROETHANE	5 UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	5 UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5 UG/L	U	V		
		1,1-DICHLOROETHANE	5 UG/L	U	V	5	0
		1,1-DICHLOROETHENE	5 UG/L	U	V	7	0
		1,2 DICHLOROETHANE -D4	108 %REC		Z		
		1,2,4-TRICHLOROBENZENE	10 UG/L	U	V		
		1,2-DICHLOROBENZENE	10 UG/L	U	V		
		1,2-DICHLOROETHANE	5 UG/L	U	V	5	0
		1,2-DICHLOROETHENE	5 UG/L	U	V		
		1,2-DICHLOROPROPANE	5 UG/L	U	V		
		1,3-DICHLOROBENZENE	10 UG/L	U	V		
		1,4-DICHLOROBENZENE	10 UG/L	U	V		
		2,4,5-TRICHLOROPHENOL	50 UG/L	U	V		

881 French Drain Sump VOA July - September 1994

FT10295RG	11-Aug-94	2,4,6-TRIBROMOPHENOL	86 %REC	Z
		2,4,6-TRICHLOROPHENOL	10 UG/L	V
		2,4-DICHLOROPHENOL	10 UG/L	V
		2,4-DIMETHYLPHENOL	10 UG/L	V
		2,4-DINITROPHENOL	50 UG/L	V
		2,4-DINITROTOLUENE	10 UG/L	V
		2,6-DINITROTOLUENE	10 UG/L	V
		2-BUTANONE	10 UG/L	R
		2-CHLORONAPHTHALENE	10 UG/L	V
		2-CHLOROPHENOL	10 UG/L	V
		2-FLUOROBIPHENYL	56 %REC	Z
		2-HEXANONE	10 UG/L	V
		2-METHYLNAPHTHALENE	10 UG/L	V
		2-METHYLPHENOL	10 UG/L	V
		2-NITROANILINE	50 UG/L	V
		2-NITROPHENOL	10 UG/L	V
		3,3'-DICHLOROBENZIDINE	20 UG/L	V
		3-NITROANILINE	50 UG/L	V
		4,6-DINITRO-2-METHYLPHENOL	50 UG/L	V
		4-CHLORO-3-METHYLPHENOL	10 UG/L	V
		4-CHLOROANILINE	10 UG/L	V
		4-CHLOROPHENYL PHENYL ETHER	10 UG/L	V
		4-METHYL-2-PENTANONE	10 UG/L	V
		4-METHYLPHENOL	10 UG/L	V
		4-NITROANILINE	50 UG/L	V
		4-NITROPHENOL	50 UG/L	V
		ACENAPHTHENE	10 UG/L	V
		ACENAPHTHYLENE	10 UG/L	V
		ACETONE	10 UG/L	V
		ANTHRACENE	10 UG/L	V
		BENZENE	5 UG/L	V
		BENZO(a)ANTHRACENE	10 UG/L	V
		BENZO(a)PYRENE	10 UG/L	V
		BENZO(b)FLUORANTHENE	10 UG/L	V
		BENZO(ghi)PERYLENE	10 UG/L	V
		BENZO(k)FLUORANTHENE	10 UG/L	V
		BENZOIC ACID	50 UG/L	V
		BENZYL ALCOHOL	10 UG/L	V
		BIS(2-CHLOROETHOXY)METHANE	10 UG/L	V
		BIS(2-CHLOROETHYL)ETHER	10 UG/L	V
		BIS(2-CHLOROISOPROPYL)ETHER	10 UG/L	V
		BIS(2-ETHYLHEXYL)PHTHALATE	10 UG/L	V
		BROMODICHLOROMETHANE	5 UG/L	V
		BROMOFLUOROBENZENE	97 %REC	Z
		BROMOFORM	5 UG/L	V
		BROMOMETHANE	10 UG/L	V
		BUTYL BENZYL PHTHALATE	10 UG/L	V
		CARBON DISULFIDE	5 UG/L	V
		CARBON TETRACHLORIDE	5 UG/L	V
		CHLOROBENZENE	5 UG/L	V
		CHLOROETHANE	10 UG/L	V
		CHLOROFORM	5 UG/L	V
		CHLOROMETHANE	10 UG/L	V
		CHRYSENE	10 UG/L	V
		DI-n-BUTYL PHTHALATE	10 UG/L	V
		DI-n-OCTYL PHTHALATE	10 UG/L	V
		DIBENZO(a,h)ANTHRACENE	10 UG/L	V
		DIBENZOFURAN	10 UG/L	V
		DIBROMOCHLOROMETHANE	5 UG/L	V
		DIETHYL PHTHALATE	10 UG/L	V
		DIMETHYL PHTHALATE	10 UG/L	V
		ETHYLBENZENE	5 UG/L	V
		FLUORANTHENE	10 UG/L	V

5 0

## 881 French Drain Sump VOA July - September 1994

FT10295RG	11-Aug-94	FLUORENE	10 UG/L	U	V		
		HEXACHLOROBENZENE	10 UG/L	U	V		
		HEXACHLOROBUTADIENE	10 UG/L	U	V		
		HEXACHLOROCYCLOPENTADIENE	10 UG/L	U	V		
		HEXACHLOROETHANE	10 UG/L	U	V		
		INDENO(1,2,3-cd)PYRENE	10 UG/L	U	V		
		ISOPHORONE	10 UG/L	U	V		
		METHYLENE CHLORIDE	5 UG/L	U	V	5	0
		N-NITROSO-DI-n-PROPYLAMINE	10 UG/L	U	V		
		N-NITROSODIPHENYLAMINE	10 UG/L	U	V		
		NAPHTHALENE	10 UG/L	U	V		
		NITROBENZENE	10 UG/L	U	V		
		NITROBENZENE-D5	56 %REC		Z		
		PENTACHLOROPHENOL	50 UG/L	U	V		
		PHENANTHRENE	10 UG/L	U	V		
		PHENOL	10 UG/L	U	V		
		PHENOL-D5	29 %REC		Z		
		PYRENE	10 UG/L	U	V		
		STYRENE	5 UG/L	U	V		
		TERPHENYL-D14	110 %REC		Z		
		TETRACHLOROETHENE	5 UG/L	U	V	5	0
		TOLUENE	5 UG/L	U	V	2000	0
		TOLUENE - D8	101 %REC		Z		
		TOTAL XYLEMES	5 UG/L	U	V		
		TRICHLOROETHENE	3 UG/L	J	A	5	0
		VINYL ACETATE	10 UG/L	U	V		
		VINYL CHLORIDE	10 UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5 UG/L	U	V		
		o-FLUOROPHENOL	41 %REC		Z		
		p-BROMODIPHENYL ETHER	10 UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5 UG/L	U	V		
FT10309RG	20-Sep-94	1,1,1-TRICHLOROETHANE	5 UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	5 UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5 UG/L	U	V		
		1,1-DICHLOROETHANE	5 UG/L	U	V	5	0
		1,1-DICHLOROETHENE	5 UG/L	U	V	7	0
		1,2 DICHLOROETHANE -D4	108 %REC		Z		
		1,2,4-TRICHLOROBENZENE	10 UG/L	U	V		
		1,2-DICHLOROBENZENE	10 UG/L	U	V		
		1,2-DICHLOROETHANE	5 UG/L	U	V	5	0
		1,2-DICHLOROETHENE	2 UG/L	J	A		
		1,2-DICHLOROPROPANE	5 UG/L	U	V		
		1,3-DICHLOROBENZENE	10 UG/L	U	V		
		1,4-DICHLOROBENZENE	10 UG/L	U	V		
		2,4,5-TRICHLOROPHENOL	50 UG/L	U	V		
		2,4,6-TRIBROMOPHENOL	57 %REC		Z		
		2,4,6-TRICHLOROPHENOL	10 UG/L	U	V		
		2,4-DICHLOROPHENOL	10 UG/L	U	V		
		2,4-DIMETHYLPHENOL	10 UG/L	U	V		
		2,4-DINITROPHENOL	50 UG/L	U	V		
		2,4-DINITROTOLUENE	10 UG/L	U	V		
		2,6-DINITROTOLUENE	10 UG/L	U	V		
		2-BUTANONE	10 UG/L	U	R		
		2-CHLORONAPHTHALENE	10 UG/L	U	V		
		2-CHLOROPHENOL	10 UG/L	U	V		
		2-FLUOROBIPHENYL	66 %REC		Z		
		2-HEXANONE	10 UG/L	U	R		
		2-METHYLNAPHTHALENE	10 UG/L	U	V		
		2-METHYLPHENOL	10 UG/L	U	V		
		2-NITROANILINE	50 UG/L	U	V		
		2-NITROPHENOL	10 UG/L	U	V		
		3,3'-DICHLOROBENZIDINE	20 UG/L	U	V		

## 881 French Drain Sump VOA July - September 1994

FT10309RG	20-Sep-94	3-NITROANILINE	50 UG/L	U	V		
		4,6-DINITRO-2-METHYLPHENOL	50 UG/L	U	V		
		4-CHLORO-3-METHYLPHENOL	10 UG/L	U	V		
		4-CHLOROANILINE	10 UG/L	U	R		
		4-CHLOROPHENYL PHENYL ETHER	10 UG/L	U	V		
		4-METHYL-2-PENTANONE	10 UG/L	U	V		
		4-METHYLPHENOL	10 UG/L	U	V		
		4-NITROANILINE	50 UG/L	U	V		
		4-NITROPHENOL	50 UG/L	U	V		
		ACENAPHTHENE	10 UG/L	U	V		
		ACENAPHTHYLENE	10 UG/L	U	V		
		ACETONE	10 UG/L	U	V		
		ANTHRACENE	10 UG/L	U	V		
		BENZENE	5 UG/L	U	V		
		BENZO(a)ANTHRACENE	10 UG/L	U	V		
		BENZO(a)PYRENE	10 UG/L	U	V		
		BENZO(b)FLUORANTHENE	10 UG/L	U	V		
		BENZO(ghi)PERYLENE	10 UG/L	U	V		
		BENZO(k)FLUORANTHENE	10 UG/L	U	V		
		BENZOIC ACID	50 UG/L	U	V		
		BENZYL ALCOHOL	10 UG/L	U	V		
		BIS(2-CHLOROETHOXY)METHANE	10 UG/L	U	V		
		BIS(2-CHLOROETHYL)ETHER	10 UG/L	U	V		
		BIS(2-CHLOROISOPROPYL)ETHER	10 UG/L	U	V		
		BIS(2-ETHYLHEXYL)PHTHALATE	16 UG/L		V		
		BROMODICHLOROMETHANE	5 UG/L	U	V		
		BROMOFLUOROBENZENE	90 %REC		Z		
		BROMOFORM	5 UG/L	U	V		
		BROMOMETHANE	10 UG/L	U	V		
		BUTYL BENZYL PHTHALATE	10 UG/L	U	V		
		CARBON DISULFIDE	5 UG/L	U	V		
		CARBON TETRACHLORIDE	5 UG/L	U	V	5	0
		CHLOROBENZENE	5 UG/L	U	V		
		CHLOROETHANE	10 UG/L	U	V		
		CHLOROFORM	5 UG/L	U	V		
		CHLOROMETHANE	10 UG/L	U	V		
		CHRYSENE	10 UG/L	U	V		
		DI-n-BUTYL PHTHALATE	10 UG/L	U	V		
		DI-n-OCTYL PHTHALATE	10 UG/L	U	V		
		DIBENZO(a,h)ANTHRACENE	10 UG/L	U	V		
		DIBENZOFURAN	10 UG/L	U	V		
		DIBROMOCHLOROMETHANE	5 UG/L	U	V		
		DIETHYL PHTHALATE	10 UG/L	U	V		
		DIMETHYL PHTHALATE	10 UG/L	U	V		
		ETHYLBENZENE	5 UG/L	U	V		
		FLUORANTHENE	10 UG/L	U	V		
		FLUORENE	10 UG/L	U	V		
		HEXACHLOROBENZENE	10 UG/L	U	V		
		HEXACHLOROBUTADIENE	10 UG/L	U	V		
		HEXACHLOROCYCLOPENTADIENE	10 UG/L	U	V		
		HEXACHLOROETHANE	10 UG/L	U	V		
		Hexanedioic acid, dicyclohexyl	13 UG/L	J	Z		
		INDENO(1,2,3-cd)PYRENE	10 UG/L	U	V		
		ISOPHORONE	10 UG/L	U	V		
		METHYLENE CHLORIDE	5 UG/L	U	V	5	0
		N-NITROSO-DI-n-PROPYLAMINE	10 UG/L	U	V		
		N-NITROSODIPHENYLAMINE	10 UG/L	U	V		
		NAPHTHALENE	10 UG/L	U	V		
		NITROBENZENE	10 UG/L	U	V		
		NITROBENZENE-D5	65 %REC		Z		
		PENTACHLOROPHENOL	50 UG/L	U	V		
		PHENANTHRENE	10 UG/L	U	V		
		PHENOL	10 UG/L	U	V		

881 French Drain Sump VOA July - September 1994

FT10309RG	20-Sep-94	PHENOL-D5	56 %REC	Z			
		PYRENE	10 UG/L	U	V		
		STYRENE	5 UG/L	U	V		
		TERPHENYL-D14	45 %REC	Z			
		TETRACHLOROETHENE	7 UG/L	V	5	1	
		TOLUENE	5 UG/L	U	V	2000	0
		TOLUENE - D8	95 %REC	Z			
		TOTAL XYLEMES	5 UG/L	U	V		
		TRICHLOROETHENE	2 UG/L	J	A	5	0
		VINYL ACETATE	10 UG/L	U	V		
		VINYL CHLORIDE	10 UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5 UG/L	U	V		
		o-FLUOROPHENOL	49 %REC	Z			
		p-BROMODIPHENYL ETHER	10 UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5 UG/L	U	V		

## 881 French Drain Sump Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual	Vqual	ARAR	# SAM > ARAR
FT10271RG	5-Jul-94	ALUMINUM	22.5	UG/L	U	JA	5000	0
		ANTIMONY	13	UG/L	U	V	60	0
		ARSENIC	2	UG/L	U	V	50	0
		BARIUM	161	UG/L	B	V	1000	0
		BERYLLIUM	1	UG/L	U	V	100	0
		CADMIUM	3	UG/L	U	V	10	0
		CALCIUM	102000	UG/L		V		
		CESIUM	43	UG/L	U	V		
		CHROMIUM	3.5	UG/L	B	V	50	0
		COBALT	3	UG/L	U	V		
		COPPER	8.2	UG/L	B	V	200	0
		IRON	27.6	UG/L	U	JA	300	0
		LEAD	1.5	UG/L	B	V	50	0
		LITHIUM	16.8	UG/L	B	V	2500	0
		MAGNESIUM	23300	UG/L		V		
		MANGANESE	1.2	UG/L	B	V	50	0
		MERCURY	0.2	UG/L	U	V	2	0
		MOLYBDENUM	6.8	UG/L	U	JA	100	0
		NICKEL	6	UG/L	U	V	200	0
		POTASSIUM	3000	UG/L	B	V		
		SELENIUM	8.7	UG/L		V	10	0
		SILICON	6750	UG/L		V		
		SILVER	2	UG/L	U	V	50	0
		SODIUM	53000	UG/L		V		
FT10295RG	11-Aug-94	STRONTIUM	732	UG/L		V		
		THALLIUM	1	UG/L	U	V	10	0
		TIN	12	UG/L	U	V		
		VANADIUM	3.4	UG/L	B	V	100	0
		ZINC	156	UG/L		V	2000	0
		ALUMINUM	17.9	UG/L	B	V	5000	0
		ANTIMONY	13	UG/L	U	V	60	0
		ARSENIC	2.3	UG/L	B	V	50	0
		BARIUM	158	UG/L	B	V	1000	0
		BERYLLIUM	1	UG/L	U	V	100	0
		CADMIUM	3	UG/L	U	V	10	0
		CALCIUM	98200	UG/L		V		
		CESIUM	43	UG/L	U	V		
		CHROMIUM	2.5	UG/L	B	V	50	0
		COBALT	3	UG/L	U	V		
		COPPER	2	UG/L	U	V	200	0
		IRON	22.3	UG/L	B	V	300	0
		LEAD	1	UG/L	U	V	50	0
		LITHIUM	14.5	UG/L	B	V	2500	0
		MAGNESIUM	22900	UG/L		V		
		MANGANESE	1	UG/L	U	V	50	0
		MERCURY	0.2	UG/L	U	V	2	0
		MOLYBDENUM	3.9	UG/L	U	JA	100	0
		NICKEL	6	UG/L	U	V	200	0
		POTASSIUM	3240	UG/L	B	V		
		SELENIUM	7.6	UG/L	S	V	10	0
		SILICON	6950	UG/L		V		
		SILVER	2	UG/L	U	V	50	0
		SODIUM	49300	UG/L		V		
		STRONTIUM	698	UG/L		V		
		THALLIUM	1	UG/L	UWN	JA	10	0
		TIN	12	UG/L	U	V		
		VANADIUM	2.9	UG/L	B	V	100	0
		ZINC	134	UG/L		V	2000	0

881 French Drain Sump Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual	Vqual	ARAR	# SAM > ARAR
FT10309RG	20-Sep-94	ALUMINUM	12	UG/L	U	V	5000	0
		ANTIMONY	14.7	UG/L	B	V	60	0
		ARSENIC	2.3	UG/L	B	V	50	0
		BARIUM	187	UG/L	B	V	1000	0
		BERYLLIUM	1	UG/L	U	V	100	0
		CADMIUM	3	UG/L	U	V	10	0
		CALCIUM	103000	UG/L		V		
		CESIUM	43	UG/L	U	V		
		CHROMIUM	2	UG/L	U	V	50	0
		COBALT	3	UG/L	U	V		
		COPPER	3.8	UG/L	U	JA	200	0
		IRON	6.7	UG/L	U	JA	300	0
		LEAD	1.4	UG/L	B	V	50	0
		LITHIUM	18.7	UG/L	B	V	2500	0
		MAGNESIUM	25100	UG/L		V		
		MANGANESE	1.1	UG/L	B	V	50	0
		MERCURY	0.2	UG/L	U	V	2	0
		MOLYBDENUM	3	UG/L	U	V	100	0
		NICKEL	6	UG/L	U	V	200	0
		POTASSIUM	3720	UG/L	B	V		
		SELENIUM	8.7	UG/L		V	10	0
		SILICON	7930	UG/L		V		
		SILVER	2	UG/L	U	V	50	0
		SODIUM	55200	UG/L		V		
		STRONTIUM	784	UG/L		V		
		THALLIUM	2	UG/L	UW	JA	10	0
		TIN	12	UG/L	U	V		
		VANADIUM	3.9	UG/L	B	V	100	0
		ZINC	248	UG/L		V	2000	0

## 881 French Drain Sump Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10271RG	5-Jul-94	4,4'-DDD	0.1	UG/L	U	V		
		4,4'-DDE	0.1	UG/L	U	V		
		4,4'-DDT	0.1	UG/L	U	V		
		ALDRIN	0.05	UG/L	U	V		
		AROCLOR-1016	0.5	UG/L	U	V		
		AROCLOR-1221	0.5	UG/L	U	V		
		AROCLOR-1232	0.5	UG/L	U	V		
		AROCLOR-1242	0.5	UG/L	U	V		
		AROCLOR-1248	0.5	UG/L	U	V		
		AROCLOR-1254	1	UG/L	U	V		
		AROCLOR-1260	1	UG/L	U	V		
		BICARBONATE AS CACO <sub>3</sub>	240	MG/L		V		
		CARBONATE AS CACO <sub>3</sub>	1	MG/L	U	V		
		CHLORIDE	130	MG/L	JA	250	0	
		DI-BUTYLCHLORENDATE	50	%REC		Z		
		DIELDRIN	0.1	UG/L	U	V		
		ENDOSULFAN I	0.05	UG/L	U	V		
		ENDOSULFAN II	0.1	UG/L	U	V		
		ENDOSULFAN SULFATE	0.1	UG/L	U	V		
		ENDRIN	0.1	UG/L	U	V		
		ENDRIN KETONE	0.1	UG/L	U	V		
		FLUORIDE	0.8	MG/L		V		
		HEPTACHLOR	0.05	UG/L	U	V		
		HEPTACHLOR EPOXIDE	0.05	UG/L	U	V		
		METHOXYCHLOR	0.5	UG/L	U	V		
		NITRATE/NITRITE	6.7	MG/L		V	10	0
		SULFATE	42	MG/L		V	250	0
		TOTAL DISSOLVED SOLIDS	520	MG/L		V	400	1
		TOTAL SUSPENDED SOLIDS	4	MG/L		V		
		TOXAPHENE	1	UG/L	U	V		
		alpha-BHC	0.05	UG/L	U	V		
		alpha-CHLORDANE	0.5	UG/L	U	V		
		beta-BHC	0.05	UG/L	U	V		
		delta-BHC	0.05	UG/L	U	V		
		gamma-BHC (LINDANE)	0.05	UG/L	U	V		
		gamma-CHLORDANE	0.5	UG/L	U	V		
		pH	7.92	PH		V		

## 881 French Drain Sump Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10295RG	11-Aug-94	4,4'-DDD	0.1	UG/L	U	V		
		4,4'-DDE	0.1	UG/L	U	V		
		4,4'-DDT	0.1	UG/L	U	V		
		ALDRIN	0.05	UG/L	U	V		
		AROCLOR-1016	0.5	UG/L	U	V		
		AROCLOR-1221	0.5	UG/L	U	V		
		AROCLOR-1232	0.5	UG/L	U	V		
		AROCLOR-1242	0.5	UG/L	U	V		
		AROCLOR-1248	0.5	UG/L	U	V		
		AROCLOR-1254	1	UG/L	U	V		
		AROCLOR-1260	1	UG/L	U	V		
		BICARBONATE AS CACO <sub>3</sub>	250	MG/L		V		
		CARBONATE AS CACO <sub>3</sub>	1	MG/L	U	V		
		CHLORIDE	90	MG/L		V	250	0
		DI-BUTYLCHLORENDATE	101	%REC		Z		
		DIELDRIN	0.1	UG/L	U	V		
		ENDOSULFAN I	0.05	UG/L	U	V		
		ENDOSULFAN II	0.1	UG/L	U	V		
		ENDOSULFAN SULFATE	0.1	UG/L	U	V		
		ENDRIN	0.1	UG/L	U	V		
		ENDRIN KETONE	0.1	UG/L	U	V		
		FLUORIDE	1.3	MG/L		V		
		HEPTACHLOR	0.05	UG/L	U	V		
		HEPTACHLOR EPOXIDE	0.05	UG/L	U	V		
		METHOXYCHLOR	0.5	UG/L	U	V		
		NITRATE/NITRITE	6.3	MG/L		V	10	0
		SULFATE	48	MG/L		V	250	0
		TOTAL DISSOLVED SOLIDS	460	MG/L		V	400	1
		TOTAL SUSPENDED SOLIDS	4	MG/L	U	V		
		TOXAPHENE	1	UG/L	U	V		
		alpha-BHC	0.05	UG/L	U	V		
		alpha-CHLORDANE	0.5	UG/L	U	V		
		beta-BHC	0.05	UG/L	U	V		
		delta-BHC	0.05	UG/L	U	V		
		gamma-BHC (LINDANE)	0.05	UG/L	U	V		
		gamma-CHLORDANE	0.5	UG/L	U	V		
		pH	8.1	PH		JA		

## 881 French Drain Sump Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10309RG	20-Sep-94	4,4'-DDD	0.1	UG/L	U	V		
		4,4'-DDE	0.1	UG/L	U	V		
		4,4'-DDT	0.1	UG/L	U	V		
		ALDRIN	0.05	UG/L	U	V		
		ACROCLOR-1016	0.5	UG/L	U	V		
		ACROCLOR-1221	0.5	UG/L	U	V		
		ACROCLOR-1232	0.5	UG/L	U	V		
		ACROCLOR-1242	0.5	UG/L	U	V		
		ACROCLOR-1248	0.5	UG/L	U	V		
		ACROCLOR-1254	1	UG/L	U	V		
		ACROCLOR-1260	1	UG/L	U	V		
		BICARBONATE AS CACO <sub>3</sub>	260	MG/L		V		
		CARBONATE AS CACO <sub>3</sub>	1	MG/L	U	V		
		CHLORIDE	110	MG/L	V		250	0
		DI-BUTYLCHLORENDATE	100	%REC	Z			
		DIELDRIN	0.1	UG/L	U	V		
		ENDOSULFAN I	0.05	UG/L	U	V		
		ENDOSULFAN II	0.1	UG/L	U	V		
		ENDOSULFAN SULFATE	0.1	UG/L	U	V		
		ENDRIN	0.1	UG/L	U	V		
		ENDRIN KETONE	0.1	UG/L	U	V		
		FLUORIDE	1.3	MG/L		V		
		HEPTACHLOR	0.05	UG/L	U	V		
		HEPTACHLOR EPOXIDE	0.05	UG/L	U	V		
		METHOXYSCHLOR	0.5	UG/L	U	V		
		NITRATE/NITRITE	6.1	MG/L	V		10	0
		SULFATE	55	MG/L	V		250	0
		TOTAL DISSOLVED SOLIDS	570	MG/L	V		400	1
		TOTAL SUSPENDED SOLIDS	4	MG/L	U	V		
		TOXAPHENE	1	UG/L	U	V		
		alpha-BHC	0.05	UG/L	U	V		
		alpha-CHLORDANE	0.5	UG/L	U	V		
		beta-BHC	0.05	UG/L	U	V		
		delta-BHC	0.05	UG/L	U	V		
		gamma-BHC (LINDANE)	0.05	UG/L	U	V		
		gamma-CHLORDANE	0.5	UG/L	U	V		
		pH	7.52	PH		JA		

881 French Drain Sump Rads July - September 1994

Sample Number	Sample Date	Isotope	Result	Unit Meas	Error	Qual	Vqual	ARAR	# SAM > ARAR
FT10271RG	5-Jul-94	AMERICIUM-241	-0.003	PCI/L	0.006	U	V	4	0
		GROSS ALPHA	4.4	PCI/L	1.5	A	15		0
		GROSS BETA	4.7	PCI/L	1.2	A	50		0
		PLUTONIUM-239/240	-0.001	PCI/L	0.001	U	V	15	0
		STRONTIUM-89,90	0.18	PCI/L	0.15	U	V	8	0
		TOTAL RADIOCESIUM	0.025	PCI/L	0.076	U	V		
		TRITIUM	21	PCI/L	170	U	V	20,000	0
		URANIUM-233,-234	4.5	PCI/L	0.68		V		
		URANIUM-235	0.26	PCI/L	0.16	J	V		
		URANIUM-238	3.2	PCI/L	0.54		V		
		TOTAL URANIUM	7.96		1.38			40	0
FT10295RG	11-Aug-94	AMERICIUM-241	0.001	PCI/L	0.006	U	Y	4	0
		GROSS ALPHA	6.1	PCI/L	1.6	Y	15		0
		GROSS BETA	5.2	PCI/L	1.1	Y	50		0
		PLUTONIUM-239/240	0.001	PCI/L	0.002	U	Y	15	0
		STRONTIUM-89,90	0.006	PCI/L	0.18	U	Y	8	0
		TOTAL RADIOCESIUM	0.46	PCI/L	0.11	J	Y		
		TRITIUM	110	PCI/L	160	U	Y	20,000	0
		URANIUM-233,-234	4.1	PCI/L	0.71		V		
		URANIUM-235	0.23	PCI/L	0.16	J	Y		
		URANIUM-238	2.9	PCI/L	0.58		V		
		TOTAL URANIUM	7.23		1.45			40	0
FT10299RG	7-Sep-94	AMERICIUM-241	0.001	PCI/L	0.003	U	Y	4	0
		GROSS ALPHA	6.7	PCI/L	1.9	Y	15		0
		GROSS BETA	7.2	PCI/L	1.1	Y	50		0
		PLUTONIUM-239/240	0.001	PCI/L	0.004	U	Y	15	0
		STRONTIUM-89,90	0.052	PCI/L	0.11	U	Y	8	0
		TOTAL RADIOCESIUM	0.19	PCI/L	0.16	U	Y		
		TRITIUM	45	PCI/L	160	U	Y	20,000	0
		URANIUM-233,-234	6	PCI/L	0.6		V		
		URANIUM-235	0.26	PCI/L	0.11	J	Y		
		URANIUM-238	3.5	PCI/L	0.42		V		
		TOTAL URANIUM	9.76		1.13			40	0

## 881 Footing Drain VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10280RG	13-Jul-94	1,1,1-TRICHLOROETHANE	5	UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	5	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5	UG/L	U	V		
		1,1-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	5	UG/L	U	V	7	0
		1,2 DICHLOROETHANE -D4	105	%REC		Z		
		1,2,4-TRICHLOROBENZENE	10	UG/L	U	V		
		1,2-DICHLOROBENZENE	10	UG/L	U	V		
		1,2-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,2-DICHLOROETHENE	5	UG/L	U	V		
		1,2-DICHLOROPROPANE	5	UG/L	U	V		
		1,3-DICHLOROBENZENE	10	UG/L	U	V		
		1,4-DICHLOROBENZENE	10	UG/L	U	V		
		2,4,5-TRICHLOROPHENOL	50	UG/L	U	V		
		2,4,6-TRIBROMOPHENOL	60	%REC		Z		
		2,4,6-TRICHLOROPHENOL	10	UG/L	U	V		
		2,4-DICHLOROPHENOL	10	UG/L	U	V		
		2,4-DIMETHYLPHENOL	10	UG/L	U	V		
		2,4-DINITROPHENOL	50	UG/L	U	V		
		2,4-DINITROTOLUENE	10	UG/L	U	V		
		2,6-DINITROTOLUENE	10	UG/L	U	V		
		2-BUTANONE	10	UG/L	U	V		
		2-CHLORONAPHTHALENE	10	UG/L	U	V		
		2-CHLOROPHENOL	10	UG/L	U	V		
		2-FLUOROBIPHENYL	67	%REC		Z		
		2-HEXANONE	10	UG/L	U	V		
		2-METHYLNAPHTHALENE	10	UG/L	U	V		
		2-METHYLPHENOL	10	UG/L	U	V		
		2-NITROANILINE	50	UG/L	U	V		
		2-NITROPHENOL	10	UG/L	U	V		
		3,3'-DICHLOROBENZIDINE	20	UG/L	U	V		
		3-NITROANILINE	50	UG/L	U	V		
		4,6-DINITRO-2-METHYLPHENOL	50	UG/L	U	V		
		4-CHLORO-3-METHYLPHENOL	10	UG/L	U	V		
		4-CHLOROANILINE	10	UG/L	U	V		
		4-CHLOROPHENYL PHENYL ETHER	10	UG/L	U	V		
		4-METHYL-2-PENTANONE	10	UG/L	U	V		
		4-METHYLPHENOL	10	UG/L	U	V		
		4-NITROANILINE	50	UG/L	U	V		
		4-NITROPHENOL	50	UG/L	U	V		
		ACENAPHTHENE	10	UG/L	U	V		
		ACENAPHTHYLENE	10	UG/L	U	V		
		ACETONE	10	UG/L	U	V		
		ANTHRACENE	10	UG/L	U	V		
		BENZENE	5	UG/L	U	V		
		BENZO(a)ANTHRACENE	10	UG/L	U	V		
		BENZO(a)PYRENE	10	UG/L	U	V		
		BENZO(b)FLUORANTHENE	10	UG/L	U	V		
		BENZO(ghi)PERYLENE	10	UG/L	U	V		
		BENZO(k)FLUORANTHENE	10	UG/L	U	V		
		BENZOIC ACID	50	UG/L	U	V		
		BENZYL ALCOHOL	10	UG/L	U	V		
		BIS(2-CHLOROETHOXY)METHANE	10	UG/L	U	V		
		BIS(2-CHLOROETHYL)ETHER	10	UG/L	U	V		
		BIS(2-CHLOROISOPROPYL)ETHER	10	UG/L	U	V		
		BIS(2-ETHYLHEXYL)PHTHALATE	10	UG/L	U	V	JA	
		BROMODICHLOROMETHANE	5	UG/L	U	V		
		BROMOFLUOROBENZENE	104	%REC		Z		
		BROMOFORM	5	UG/L	U	V		
		BROMOMETHANE	10	UG/L	U	V		
		BUTYL BENZYL PHTHALATE	10	UG/L	U	V		

## 881 Footing Drain VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10280RG	13-Jul-94	CARBON DISULFIDE	5	UG/L	U	V		
		CARBON TETRACHLORIDE	5	UG/L	U	V	5	0
		CHLOROBENZENE	5	UG/L	U	V		
		CHLOROETHANE	10	UG/L	U	V		
		CHLOROFORM	5	UG/L	U	V		
		CHLOROMETHANE	10	UG/L	U	V		
		CHRYSENE	10	UG/L	U	V		
		DI-n-BUTYL PHTHALATE	10	UG/L	U	V		
		DI-n-OCTYL PHTHALATE	10	UG/L	U	V		
		DIBENZO(a,h)ANTHRACENE	10	UG/L	U	V		
		DIBENZOFURAN	10	UG/L	U	V		
		DIBROMOCHLOROMETHANE	5	UG/L	U	V		
		DIETHYL PHTHALATE	10	UG/L	U	V		
		DIMETHYL PHTHALATE	10	UG/L	U	V		
		ETHYLBENZENE	5	UG/L	U	V		
		FLUORANTHENE	10	UG/L	U	V		
		FLUORENE	10	UG/L	U	V		
		HEXACHLOROBENZENE	10	UG/L	U	V		
		HEXACHLOROBUTADIENE	10	UG/L	U	V		
		HEXACHLOROCYCLOPENTADIENE	10	UG/L	U	V		
		HEXACHLOROETHANE	10	UG/L	U	V		
		INDENO(1,2,3-cd)PYRENE	10	UG/L	U	V		
		ISOPHORONE	10	UG/L	U	V		
		METHYLENE CHLORIDE	5	UG/L	U	V	5	0
		N-NITROSO-DI-n-PROPYLAMINE	10	UG/L	U	V		
		N-NITROSODIPHENYLAMINE	10	UG/L	U	V		
		NAPHTHALENE	10	UG/L	U	V		
		NITROBENZENE	10	UG/L	U	V		
		NITROBENZENE-D5	72	%REC		Z		
		PENTACHLOROPHENOL	50	UG/L	U	V		
		PHENANTHRENE	10	UG/L	U	V		
		PHENOL	10	UG/L	U	V		
		PHENOL-D5	75	%REC		Z		
		PYRENE	10	UG/L	U	V		
		STYRENE	5	UG/L	U	V		
		TERPHENYL-D14	105	%REC		Z		
		TETRACHLOROETHENE	1	UG/L	J	A	5	0
		TOLUENE	5	UG/L	U	V	2000	0
		TOLUENE - D8	100	%REC		Z		
		TOTAL XYLEMES	5	UG/L	U	V		
		TRICHLOROETHENE	5	UG/L	U	V	5	0
		VINYL ACETATE	10	UG/L	U	V		
		VINYL CHLORIDE	10	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5	UG/L	U	V		
		o-FLUOROPHENOL	73	%REC		Z		
		p-BROMODIPHENYL ETHER	10	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5	UG/L	U	V		
FT10292RG	11-Aug-94	1,1,1-TRICHLOROETHANE	5	UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	5	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5	UG/L	U	V		
		1,1-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	5	UG/L	U	V	7	0
		1,2 DICHLOROETHANE -D4	106	%REC		Z		
		1,2,4-TRICHLOROBENZENE	10	UG/L	U	V		
		1,2-DICHLOROBENZENE	10	UG/L	U	V		
		1,2-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,2-DICHLOROETHENE	5	UG/L	U	V		
		1,2-DICHLOROPROPANE	5	UG/L	U	V		
		1,3-DICHLOROBENZENE	10	UG/L	U	V		
		1,4-DICHLOROBENZENE	10	UG/L	U	V		
		2,4,5-TRICHLOROPHENOL	50	UG/L	U	V		

## 881 Footing Drain VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10292RG	11-Aug-94	2,4,6-TRIBROMOPHENOL	75 %REC		Z			
		2,4,6-TRICHLOROPHENOL	10 UG/L		U	V		
		2,4-DICHLOROPHENOL	10 UG/L		U	V		
		2,4-DIMETHYLPHENOL	10 UG/L		U	V		
		2,4-DINITROPHENOL	50 UG/L		U	V		
		2,4-DINITROTOLUENE	10 UG/L		U	V		
		2-BUTANONE	10 UG/L		U	R		
		2-CHLORONAPHTHALENE	10 UG/L		U	V		
		2-CHLOROPHENOL	10 UG/L		U	V		
		2-FLUOROBIPHENYL	73 %REC		Z			
		2-HEXANONE	10 UG/L		U	V		
		2-METHYLNAPHTHALENE	10 UG/L		U	V		
		2-METHYLPHENOL	10 UG/L		U	V		
		2-NITROANILINE	50 UG/L		U	V		
		2-NITROPHENOL	10 UG/L		U	V		
		3,3'-DICHLOROBENZIDINE	20 UG/L		U	V		
		3-NITROANILINE	50 UG/L		U	V		
		4,6-DINITRO-2-METHYLPHENOL	50 UG/L		U	V		
		4-CHLORO-3-METHYLPHENOL	10 UG/L		U	V		
		4-CHLOROANILINE	10 UG/L		U	V		
		4-CHLOROPHENYL PHENYL ETHER	10 UG/L		U	V		
		4-METHYL-2-PENTANONE	10 UG/L		U	V		
		4-METHYLPHENOL	10 UG/L		U	V		
		4-NITROANILINE	50 UG/L		U	V		
		4-NITROPHENOL	50 UG/L		U	V		
		ACENAPHTHENE	10 UG/L		U	V		
		ACENAPHTHYLENE	10 UG/L		U	V		
		ACETONE	10 UG/L		U	V		
		ANTHRACENE	10 UG/L		U	V		
		BENZENE	5 UG/L		U	V		
		BENZO(a)ANTHRACENE	10 UG/L		U	V		
		BENZO(a)PYRENE	10 UG/L		U	V		
		BENZO(b)FLUORANTHENE	10 UG/L		U	V		
		BENZO(ghi)PERYLENE	10 UG/L		U	V		
		BENZO(k)FLUORANTHENE	10 UG/L		U	V		
		BENZOIC ACID	50 UG/L		U	V		
		BENZYL ALCOHOL	10 UG/L		U	V		
		BIS(2-CHLOROETHOXY)METHANE	10 UG/L		U	V		
		BIS(2-CHLOROETHYL)ETHER	10 UG/L		U	V		
		BIS(2-CHLOROISOPROPYL)ETHER	10 UG/L		U	V		
		BIS(2-ETHYLHEXYL)PHTHALATE	10 UG/L		U	V		
		BROMODICHLOROMETHANE	5 UG/L		U	V		
		BROMOFLUOROBENZENE	91 %REC		Z			
		BROMOFORM	5 UG/L		U	V		
		BROMOMETHANE	10 UG/L		U	V		
		BUTYL BENZYL PHTHALATE	10 UG/L		U	V		
		CARBON DISULFIDE	5 UG/L		U	V		
		CARBON TETRACHLORIDE	5 UG/L		U	V	5	0
		CHLOROBENZENE	5 UG/L		U	V		
		CHLOROETHANE	10 UG/L		U	V		
		CHLOROFORM	5 UG/L		U	V		
		CHLOROMETHANE	10 UG/L		U	V		
		CHRYSENE	10 UG/L		U	V		
		DI-n-BUTYL PHTHALATE	10 UG/L		U	V		
		DI-n-OCTYL PHTHALATE	10 UG/L		U	V		
		DIBENZO(a,h)ANTHRACENE	10 UG/L		U	V		
		DIBENZOFURAN	10 UG/L		U	V		
		DIBROMOCHLOROMETHANE	5 UG/L		U	V		
		DIETHYL PHTHALATE	10 UG/L		U	V		
		DIMETHYL PHTHALATE	10 UG/L		U	V		
		ETHYLBENZENE	5 UG/L		U	V		

## 881 Footing Drain VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10292RG	11-Aug-94	FLUORANTHENE	10	UG/L	U	V		
		FLUORENE	10	UG/L	U	V		
		HEXACHLOROBENZENE	10	UG/L	U	V		
		HEXACHLOROBUTADIENE	10	UG/L	U	V		
		HEXACHLOROCYCLOPENTADIENE	10	UG/L	U	V		
		HEXACHLOROETHANE	10	UG/L	U	V		
		INDENO(1,2,3-cd)PYRENE	10	UG/L	U	V		
		ISOPHORONE	10	UG/L	U	V		
		METHYLENE CHLORIDE	2	UG/L	J	A	5	0
		N-NITROSO-DI-n-PROPYLAMINE	10	UG/L	U	V		
		N-NITROSODIPHENYLAMINE	10	UG/L	U	V		
		NAPHTHALENE	10	UG/L	U	V		
		NITROBENZENE	10	UG/L	U	V		
		NITROBENZENE-D5	72	%REC	Z			
		PENTACHLOROPHENOL	50	UG/L	U	V		
		PHENANTHRENE	10	UG/L	U	V		
		PHENOL	10	UG/L	U	V		
		PHENOL-D5	25	%REC	Z			
		PYRENE	10	UG/L	U	V		
		STYRENE	5	UG/L	U	V		
		TERPHENYL-D14	121	%REC	Z			
		TETRACHLOROETHENE	2	UG/L	J	A	5	0
		TOLUENE	5	UG/L	U	V	2000	0
		TOLUENE - D8	99	%REC	Z			
		TOTAL XYLEMES	5	UG/L	U	V		
		TRICHLOROETHENE	5	UG/L	U	V	5	0
		VINYL ACETATE	10	UG/L	U	V		
		VINYL CHLORIDE	10	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5	UG/L	U	V		
		o-FLUOROPHENOL	39	%REC	Z			
		p-BROMODIPHENYL ETHER	10	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5	UG/L	U	V		
FT10297RG	7-Sep-94	1,1,1-TRICHLOROETHANE	5	UG/L	U	V	200	0
		1,1,2,2-TETRACHLOROETHANE	5	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5	UG/L	U	V		
		1,1-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	5	UG/L	U	V	7	0
		1,2 DICHLOROETHANE -D4	104	%REC	Z			
		1,2,4-TRICHLOROBENZENE	10	UG/L	U	V		
		1,2-DICHLOROBENZENE	10	UG/L	U	V		
		1,2-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,2-DICHLOROETHENE	7	UG/L	JA			
		1,2-DICHLOROPROPANE	5	UG/L	U	V		
		1,3-DICHLOROBENZENE	10	UG/L	U	V		
		1,4-DICHLOROBENZENE	10	UG/L	U	V		
		2,4,5-TRICHLOROPHENOL	50	UG/L	U	V		
		2,4,6-TRIBROMOPHENOL	63	%REC	Z			
		2,4,6-TRICHLOROPHENOL	10	UG/L	U	V		
		2,4-DICHLOROPHENOL	10	UG/L	U	V		
		2,4-DIMETHYLPHENOL	10	UG/L	U	V		
		2,4-DINITROPHENOL	50	UG/L	U	R		
		2,4-DINITROTOLUENE	10	UG/L	U	V		
		2,6-DINITROTOLUENE	10	UG/L	U	V		
		2-BUTANONE	10	UG/L	U	R		
		2-CHLORONAPHTHALENE	10	UG/L	U	V		
		2-CHLOROPHENOL	10	UG/L	U	V		
		2-FLUOROBIPHENYL	66	%REC	Z			
		2-HEXANONE	10	UG/L	U	V		
		2-METHYLNAPHTHALENE	10	UG/L	U	V		
		2-METHYLPHENOL	10	UG/L	U	V		
		2-NITROANILINE	50	UG/L	U	V		

## 881 Footing Drain VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10297RG	7-Sep-94	2-NITROPHENOL	10	UG/L	U	V		
		3,3'-DICHLOROBENZIDINE	20	UG/L	U	V		
		3-NITROANILINE	50	UG/L	U	V		
		4,6-DINITRO-2-METHYLPHENOL	50	UG/L	U	V		
		4-CHLORO-3-METHYLPHENOL	10	UG/L	U	V		
		4-CHLOROANILINE	10	UG/L	U	V		
		4-CHLOROPHENYL PHENYL ETHER	10	UG/L	U	V		
		4-METHYL-2-PENTANONE	10	UG/L	U	V		
		4-METHYLPHENOL	10	UG/L	U	V		
		4-NITROANILINE	50	UG/L	U	V		
		4-NITROPHENOL	50	UG/L	U	V		
		ACENAPHTHENE	10	UG/L	U	V		
		ACENAPHTHYLENE	10	UG/L	U	V		
		ACETONE	10	UG/L	U	V		
		ANTHRACENE	10	UG/L	U	V		
		BENZENE	5	UG/L	U	V		
		BENZO(a)ANTHRACENE	10	UG/L	U	V		
		BENZO(a)PYRENE	10	UG/L	U	V		
		BENZO(b)FLUORANTHENE	10	UG/L	U	V		
		BENZO(ghi)PERYLENE	10	UG/L	U	V		
		BENZO(k)FLUORANTHENE	10	UG/L	U	V		
		BENZOIC ACID	50	UG/L	U	V		
		BENZYL ALCOHOL	10	UG/L	U	V		
		BIS(2-CHLOROETHOXY)METHANE	10	UG/L	U	V		
		BIS(2-CHLOROETHYL)ETHER	10	UG/L	U	V		
		BIS(2-CHLOROISOPROPYL)ETHER	10	UG/L	U	V		
		BIS(2-ETHYLHEXYL)PHTHALATE	10	UG/L	U	V		
		BROMODICHLOROMETHANE	5	UG/L	U	V		
		BROMOFLUOROBENZENE	92 %REC		Z			
		BROMOFORM	5	UG/L	U	V		
		BROMOMETHANE	10	UG/L	U	V		
		BUTYL BENZYL PHTHALATE	10	UG/L	U	V		
		CARBON DISULFIDE	5	UG/L	U	V		
		CARBON TETRACHLORIDE	5	UG/L	U	V	5	0
		CHLOROBENZENE	5	UG/L	U	V		
		CHLOROETHANE	10	UG/L	U	V		
		CHLOROFORM	5	UG/L	U	V		
		CHLOROMETHANE	10	UG/L	U	V		
		CHRYSENE	10	UG/L	U	V		
		DI-n-BUTYL PHTHALATE	10	UG/L	U	V		
		DI-n-OCTYL PHTHALATE	10	UG/L	U	V		
		DIBENZO(a,h)ANTHRACENE	10	UG/L	U	V		
		DIBENZOFURAN	10	UG/L	U	V		
		DIBROMOCHLOROMETHANE	5	UG/L	U	V		
		DIETHYL PHTHALATE	16	UG/L	U	V		
		DIMETHYL PHTHALATE	10	UG/L	U	V		
		ETHYLBENZENE	5	UG/L	U	V		
		FLUORANTHENE	10	UG/L	U	V		
		FLUORENE	10	UG/L	U	V		
		HEXACHLOROBENZENE	10	UG/L	U	V		
		HEXACHLOROBUTADIENE	10	UG/L	U	V		
		HEXACHLOROCYCLOPENTADIENE	10	UG/L	U	V		
		HEXACHLOROETHANE	10	UG/L	U	V		
		INDENO(1,2,3-cd)PYRENE	10	UG/L	U	V		
		ISOPHORONE	10	UG/L	U	V		
		METHYLENE CHLORIDE	5	UG/L	U	V	5	0
		N-NITROSO-DI-n-PROPYLAMINE	10	UG/L	U	V		
		N-NITROSODIPHENYLAMINE	10	UG/L	U	V		
		NAPHTHALENE	10	UG/L	U	V		
		NITROBENZENE	10	UG/L	U	V		
		NITROBENZENE-D5	62 %REC		Z			
		PENTACHLOROPHENOL	50	UG/L	U	V		

881 Footing Drain VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10297RG	7-Sep-94	PHENANTHRENE		10 UG/L	U	V		
		PHENOL		10 UG/L	U	V		
		PHENOL-D5		17 %REC		Z		
		PYRENE		10 UG/L	U	V		
		STYRENE		5 UG/L	U	V		
		TERPHENYL-D14		71 %REC		Z		
		TETRACHLOROETHENE		47 UG/L		V	5	1
		TOLUENE		5 UG/L	U	V	2000	0
		TOLUENE - D8		102 %REC		Z		
		TOTAL XYLEMES		5 UG/L	U	V		
		TRICHLOROETHENE		6 UG/L		V	5	1
		UNKNOWN		10 UG/L	J	Z		
		UNKNOWN		15 UG/L	J	Z		
		UNKNOWN		23 UG/L	J	Z		
		VINYL ACETATE		10 UG/L	U	V		
		VINYL CHLORIDE		10 UG/L	U	V		
		cis-1,3-DICHLOROPROPENE		5 UG/L	U	V		
		o-FLUOROPHENOL		23 %REC		Z		
		p-BROMODIPHENYL ETHER		10 UG/L	U	V		
		trans-1,3-DICHLOROPROPENE		5 UG/L	U	V		

## 881 Footing Drain Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual	Vqual	ARAR	# SAM > ARAR
FT10280RG	13-Jul-94	ALUMINUM	13.8	UG/L	B	V	5000	0
		ANTIMONY	13	UG/L	U	V	60	0
		ARSENIC	2	UG/L	U	V	50	0
		BARIUM	167	UG/L	B	V	1000	0
		BERYLLIUM	1	UG/L	U	V	100	0
		CADMIUM	3	UG/L	U	V	10	0
		CALCIUM	104000	UG/L		V		
		CESIUM	43	UG/L	U	V		
		CHROMIUM	2	UG/L	U	V	50	0
		COBALT	3	UG/L	U	V		
		COPPER	2	UG/L	U	V	200	0
		IRON	16.5	UG/L	U	JA	300	0
		LEAD	1	UG/L	U	V	50	0
		LITHIUM	14.6	UG/L	B	V	2500	0
		MAGNESIUM	23100	UG/L		V		
		MANGANESE	1	UG/L	B	V	50	0
		MERCURY	0.2	UG/L	U	V	2	0
		MOLYBDENUM	3	UG/L	U	V	100	0
		NICKEL	6	UG/L	U	V	200	0
		POTASSIUM	2460	UG/L	B	V		
		SELENIUM	3.2	UG/L	B	V	10	0
		SILICON	6990	UG/L		V		
		SILVER	2	UG/L	U	V	50	0
		SODIUM	48000	UG/L		V		
		STRONTIUM	717	UG/L		V		
		THALLIUM	1	UG/L	U	JA	10	0
		TIN	12	UG/L	U	V		
		VANADIUM	2	UG/L	U	V	100	0
		ZINC	49.1	UG/L		V	2000	0
FT10292RG	11-Aug-94	ALUMINUM	12.3	UG/L	B	V	5000	0
		ANTIMONY	13	UG/L	U	V	60	0
		ARSENIC	2	UG/L	U	V	50	0
		BARIUM	134	UG/L	B	V	1000	0
		BERYLLIUM	1	UG/L	U	V	100	0
		CADMIUM	3	UG/L	U	V	10	0
		CALCIUM	81000	UG/L		V		
		CESIUM	43	UG/L	U	V		
		CHROMIUM	2	UG/L	U	V	50	0
		COBALT	3	UG/L	U	V		
		COPPER	2	UG/L	U	V	200	0
		IRON	20.5	UG/L	B	V	300	0
		LEAD	1	UG/L	U	V	50	0
		LITHIUM	8.8	UG/L	B	V	2500	0
		MAGNESIUM	18800	UG/L		V		
		MANGANESE	1.3	UG/L	B	V	50	0
		MERCURY	0.2	UG/L	U	V	2	0
		MOLYBDENUM	3	UG/L	U	V	100	0
		NICKEL	6	UG/L	U	V	200	0
		POTASSIUM	2990	UG/L	B	V		
		SELENIUM	2.1	UG/L	B	V	10	0
		SILICON	5940	UG/L		V		
		SILVER	2	UG/L	U	V	50	0
		SODIUM	36800	UG/L		V		
		STRONTIUM	580	UG/L		V		
		THALLIUM	1	UG/L	UN	JA	10	0
		TIN	12	UG/L	U	V		
		VANADIUM	2	UG/L	U	V	100	0
		ZINC	69.1	UG/L		V	2000	0

## 881 Footing Drain Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual	Vqual	ARAR	# SAM > ARAR
FT10297RG	7-Sep-94	ALUMINUM	12	UG/L	U	V	5000	0
		ANTIMONY	13	UG/L	U	V	60	0
		ARSENIC	2	UG/L	U	V	50	0
		BARIUM	173	UG/L	B	V	1000	0
		BERYLLIUM	1	UG/L	U	V	100	0
		CADMIUM	3	UG/L	U	V	10	0
		CALCIUM	102000	UG/L		V		
		CESIUM	43	UG/L	U	V		
		CHROMIUM	2	UG/L	U	V	50	0
		COBALT	3	UG/L	U	V		
		COPPER	5.8	UG/L	B	V	200	0
		IRON	19.8	UG/L	U	JA	300	0
		LEAD	1	UG/L	U	V	50	0
		LITHIUM	18.6	UG/L	B	V	2500	0
		MAGNESIUM	25400	UG/L		V		
		MANGANESE	27.2	UG/L		V	50	0
		MERCURY	0.2	UG/L	U	V	2	0
		MOLYBDENUM	3	UG/L	U	V	100	0
		NICKEL	6	UG/L	U	V	200	0
		POTASSIUM	4930	UG/L	B	V		
		SELENIUM	7.9	UG/L	S	V	10	0
		SILICON	7750	UG/L		V		
		SILVER	2	UG/L	UN	JA	50	0
		SODIUM	59800	UG/L		V		
		STRONTIUM	770	UG/L		V		
		THALLIUM	1	UG/L	UWN	JA	10	0
		TIN	12	UG/L	U	V		
		VANADIUM	2.7	UG/L	B	V	100	0
		ZINC	373	UG/L		V	2000	0

881 Footing Drain Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10280RG	13-Jul-94	4,4'-DDD	0.1	UG/L	U	V		
		4,4'-DDE	0.1	UG/L	U	V		
		4,4'-DDT	0.1	UG/L	U	V		
		ALDRIN	0.05	UG/L	U	V		
		AROCLOR-1016	0.5	UG/L	U	V		
		AROCLOR-1221	0.5	UG/L	U	V		
		AROCLOR-1232	0.5	UG/L	U	V		
		AROCLOR-1242	0.5	UG/L	U	V		
		AROCLOR-1248	0.5	UG/L	U	V		
		AROCLOR-1254	1	UG/L	U	V		
		AROCLOR-1260	1	UG/L	U	V		
		BICARBONATE AS CACO <sub>3</sub>	230	MG/L		V		
		CARBONATE AS CACO <sub>3</sub>	1	MG/L	U	V		
		CHLORIDE	110	MG/L		V	250	0
		DI-BUTYLCHLORENDATE	56	%REC		Z		
		DIELDRIN	0.1	UG/L	U	V		
		ENDOSULFAN I	0.05	UG/L	U	V		
		ENDOSULFAN II	0.1	UG/L	U	V		
		ENDOSULFAN SULFATE	0.1	UG/L	U	V		
		ENDRIN	0.1	UG/L	U	V		
		ENDRIN KETONE	0.1	UG/L	U	V		
		FLUORIDE	0.8	MG/L		V		
		HEPTACHLOR	0.05	UG/L	U	V		
		HEPTACHLOR EPOXIDE	0.05	UG/L	U	V		
		METHOXYCHLOR	0.5	UG/L	U	V		
		NITRATE/NITRITE	7	MG/L		V	10	0
		SULFATE	36	MG/L		V	250	0
		TOTAL DISSOLVED SOLIDS	500	MG/L		V	400	1
		TOTAL SUSPENDED SOLIDS	4	MG/L	U	V		
		TOXAPHENE	1	UG/L	U	V		
		alpha-BHC	0.05	UG/L	U	V		
		alpha-CHLORDANE	0.5	UG/L	U	V		
		beta-BHC	0.05	UG/L	U	V		
		delta-BHC	0.05	UG/L	U	V		
		gamma-BHC (LINDANE)	0.05	UG/L	U	V		
		gamma-CHLORDANE	0.5	UG/L	U	V		
		pH	7.91	PH		JA		

## 881 Footing Drain Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10292RG	11-Aug-94	4,4'-DDD	0.1	UG/L	U	V		
		4,4'-DDE	0.1	UG/L	U	V		
		4,4'-DDT	0.1	UG/L	U	V		
		ALDRIN	0.05	UG/L	U	V		
		AROCLOR-1016	0.5	UG/L	U	V		
		AROCLOR-1221	0.5	UG/L	U	V		
		AROCLOR-1232	0.5	UG/L	U	V		
		AROCLOR-1242	0.5	UG/L	U	V		
		AROCLOR-1248	0.5	UG/L	U	V		
		AROCLOR-1254	1	UG/L	U	V		
		AROCLOR-1260	1	UG/L	U	V		
		BICARBONATE AS CACO <sub>3</sub>	210	MG/L		V		
		CARBONATE AS CACO <sub>3</sub>	1	MG/L	U	V		
		CHLORIDE	81	MG/L		V	250	0
		DI-BUTYLCHLORENDATE	96	%REC		Z		
		DIELDRIN	0.1	UG/L	U	V		
		ENDOSULFAN I	0.05	UG/L	U	V		
		ENDOSULFAN II	0.1	UG/L	U	V		
		ENDOSULFAN SULFATE	0.1	UG/L	U	V		
		ENDRIN	0.1	UG/L	U	V		
		ENDRIN KETONE	0.1	UG/L	U	V		
		FLUORIDE	0.9	MG/L		V		
		HEPTACHLOR	0.05	UG/L	U	V		
		HEPTACHLOR EPOXIDE	0.05	UG/L	U	V		
		METHOXYCHLOR	0.5	UG/L	U	V		
		NITRATE/NITRITE	5.8	MG/L		V	10	0
		SULFATE	26	MG/L		V	250	0
		TOTAL DISSOLVED SOLIDS	420	MG/L		V	400	1
		TOTAL SUSPENDED SOLIDS	4	MG/L	U	V		
		TOXAPHENE	1	UG/L	U	V		
		alpha-BHC	0.05	UG/L	U	V		
		alpha-CHLORDANE	0.5	UG/L	U	V		
		beta-BHC	0.05	UG/L	U	V		
		delta-BHC	0.05	UG/L	U	V		
		gamma-BHC (LINDANE)	0.05	UG/L	U	V		
		gamma-CHLORDANE	0.5	UG/L	U	V		
		pH	8.15	PH		JA		

881 Footing Drain Rads July - September 1994

Sample Number	Sample Date	Isotope	Result	Unit Meas	Error	Qual	Vqual	ARAR	# SAM > ARAR
FT10280RG	13-Jul-94	AMERICIUM-241	0.002	PCI/L	0.003	U	V	4	0
		GROSS ALPHA	5.7	PCI/L	1.6	A	A	15	0
		GROSS BETA	4.6	PCI/L	1	A	A	50	0
		PLUTONIUM-239/240	0.003	PCI/L	0.005	U	V	15	0
		STRONTIUM-89,90	-0.001	PCI/L	0.096	U	V	8	0
		TOTAL RADIOCESIUM	-0.017	PCI/L	0.13	U	V		
		TRITIUM	100	PCI/L	150	U	V	20,000	0
		URANIUM-233,-234	3.9	PCI/L	0.41		V		
		URANIUM-235	0.12	PCI/L	0.072	J	V		
		URANIUM-238	2.9	PCI/L	0.34		V		
		TOTAL URANIUM	6.92		0.822			40	0
FT10292RG	11-Aug-94	AMERICIUM-241	-0.001	PCI/L	0.002	U	Y	4	0
		GROSS ALPHA	4.7	PCI/L	1.3	Y	Y	15	0
		GROSS BETA	5.8	PCI/L	1.1	Y	Y	50	0
		PLUTONIUM-239/240	0.001	PCI/L	0.004	U	Y	15	0
		STRONTIUM-89,90	0.035	PCI/L	0.19	U	Y	8	0
		TOTAL RADIOCESIUM	0.021	PCI/L	0.087	U	Y		
		TRITIUM	200	PCI/L	160	U	Y	20,000	0
		URANIUM-233,-234	3.1	PCI/L	0.53		V		
		URANIUM-235	0.11	PCI/L	0.13	U	Y		
		URANIUM-238	2.2	PCI/L	0.43		V		
		TOTAL URANIUM	5.41		1.09			40	0
FT10297RG	7-Sep-94	AMERICIUM-241	0.004	PCI/L	0.004	J	Y	4	0
		GROSS ALPHA	6.7	PCI/L	1.8	Y	Y	15	0
		GROSS BETA	7.8	PCI/L	1.2	Y	Y	50	0
		PLUTONIUM-239/240	-0.001	PCI/L	0.002	U	Y	15	0
		STRONTIUM-89,90	0.003	PCI/L	0.16	U	Y	8	0
		TOTAL RADIOCESIUM	0.15	PCI/L	0.13	U	Y		
		TRITIUM	-18	PCI/L	160	U	Y	20,000	0
		URANIUM-233,-234	5.9	PCI/L	0.93		V		
		URANIUM-235	0.44	PCI/L	0.23	J	Y		
		URANIUM-238	4.1	PCI/L	0.76		V		
		TOTAL URANIUM	10.44		1.92			40	0

## 881 Collection Well VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10272RG	5-Jul-94	1,1,1-TRICHLOROETHANE	7	UG/L		V	200	0
		1,1,2,2-TETRACHLOROETHANE	5	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5	UG/L	U	V		
		1,1-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	18	UG/L		V	7	1
		1,2 DICHLOROETHANE -D4	95	%REC		Z		
		1,2,4-TRICHLOROBENZENE	10	UG/L	U	V		
		1,2-DICHLOROBENZENE	10	UG/L	U	V		
		1,2-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,2-DICHLOROETHENE	5	UG/L	U	V		
		1,2-DICHLOROPROPANE	5	UG/L	U	V		
		1,3-DICHLOROBENZENE	10	UG/L	U	V		
		1,4-DICHLOROBENZENE	10	UG/L	U	V		
		2,4,5-TRICHLOROPHENOL	50	UG/L	U	V		
		2,4,6-TRIBROMOPHENOL	45	%REC		Z		
		2,4,6-TRICHLOROPHENOL	10	UG/L	U	V		
		2,4-DICHLOROPHENOL	10	UG/L	U	V		
		2,4-DIMETHYLPHENOL	10	UG/L	U	V		
		2,4-DINITROPHENOL	50	UG/L	U	V		
		2,4-DINITROTOLUENE	10	UG/L	U	V		
		2,6-DINITROTOLUENE	10	UG/L	U	V		
		2-BUTANONE	10	UG/L	U	R		
		2-CHLORONAPHTHALENE	10	UG/L	U	V		
		2-CHLOROPHENOL	10	UG/L	U	V		
		2-FLUOROBIPHENYL	41	%REC	*	Z		
		2-HEXANONE	10	UG/L	U	V		
		2-METHYLNAPHTHALENE	10	UG/L	U	V		
		2-METHYLPHENOL	10	UG/L	U	V		
		2-NITROANILINE	50	UG/L	U	V		
		2-NITROPHENOL	10	UG/L	U	V		
		3,3'-DICHLOROBENZIDINE	20	UG/L	U	V		
		3-NITROANILINE	50	UG/L	U	R		
		4,6-DINITRO-2-METHYLPHENOL	50	UG/L	U	V		
		4-CHLORO-3-METHYLPHENOL	10	UG/L	U	V		
		4-CHLOROANILINE	10	UG/L	U	V		
		4-CHLOROPHENYL PHENYL ETHER	10	UG/L	U	V		
		4-METHYL-2-PENTANONE	10	UG/L	U	V		
		4-METHYLPHENOL	10	UG/L	U	V		
		4-NITROANILINE	50	UG/L	U	V		
		4-NITROPHENOL	50	UG/L	U	V		
		ACENAPHTHENE	10	UG/L	U	V		
		ACENAPHTHYLENE	10	UG/L	U	V		
		ACETONE	10	UG/L	U	R		
		ANTHRACENE	10	UG/L	U	V		
		BENZENAMINE, N, N-DIMETHYL-	16	UG/L	J	Z		
		BENZENE	5	UG/L	U	V		
		BENZO(a)ANTHRACENE	10	UG/L	U	V		
		BENZO(a)PYRENE	10	UG/L	U	V		
		BENZO(b)FLUORANTHENE	10	UG/L	U	V		
		BENZO(ghi)PERYLENE	10	UG/L	U	V		
		BENZO(k)FLUORANTHENE	10	UG/L	U	V		
		BENZOIC ACID	50	UG/L	U	V		
		BENZYL ALCOHOL	10	UG/L	U	V		
		BIS(2-CHLOROETHOXY)METHANE	10	UG/L	U	V		
		BIS(2-CHLOROETHYL)ETHER	10	UG/L	U	V		
		BIS(2-CHLORoisOPROPYL)ETHER	10	UG/L	U	V		
		BIS(2-ETHYLHEXYL)PHTHALATE	10	UG/L	U	V		
		BROMODICHLOROMETHANE	5	UG/L	U	V		
		BROMOFLUOROBENZENE	98	%REC		Z		
		BROMOFORM	5	UG/L	U	V		
		BROMOMETHANE	10	UG/L	U	V		

## 881 Collection Well VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10272RG	5-Jul-94	BUTYL BENZYL PHTHALATE	10	UG/L	U	V		
		CARBON DISULFIDE	5	UG/L	U	V		
		CARBON TETRACHLORIDE	5	UG/L		V	5	0
		CHLOROBENZENE	5	UG/L	U	V		
		CHLOROETHANE	10	UG/L	U	V		
		CHLOROFORM	5	UG/L	U	V		
		CHLOROMETHANE	10	UG/L	U	V		
		CHRYSENE	10	UG/L	U	V		
		Di-n-BUTYL PHTHALATE	10	UG/L	U	V		
		Di-n-OCTYL PHTHALATE	10	UG/L	U	V		
		DIBENZO(a,h)ANTHRACENE	10	UG/L	U	V		
		DIBENZOFURAN	10	UG/L	U	V		
		DIBROMOCHLOROMETHANE	5	UG/L	U	V		
		DIETHYL PHTHALATE	10	UG/L	U	V		
		DIMETHYL PHTHALATE	10	UG/L	U	V		
		ETHYLBENZENE	5	UG/L	U	V		
		FLUORANTHENE	10	UG/L	U	V		
		FLUORENE	10	UG/L	U	V		
		HEXACHLOROBENZENE	10	UG/L	U	V		
		HEXACHLOROBUTADIENE	10	UG/L	U	V		
		HEXACHLOROCYCLOPENTADIENE	10	UG/L	U	V		
		HEXACHLOROETHANE	10	UG/L	U	V		
		INDENO(1,2,3-cd)PYRENE	10	UG/L	U	V		
		ISOPHORONE	10	UG/L	U	V		
		METHYLENE CHLORIDE	5	UG/L	U	V	5	0
		N-NITROSO-DI-n-PROPYLAMINE	10	UG/L	U	V		
		N-NITROSODIPHENYLAMINE	10	UG/L	U	V		
		NAPHTHALENE	10	UG/L	U	V		
		NITROBENZENE	10	UG/L	U	V		
		NITROBENZENE-D5	41 %REC			Z		
		PENTACHLOROPHENOL	50	UG/L	U	V		
		PHENANTHRENE	10	UG/L	U	V		
		PHENOL	10	UG/L	U	V		
		PHENOL-D5	18 %REC			Z		
		PYRENE	10	UG/L	U	V		
		STYRENE	5	UG/L	U	V		
		TERPHENYL-D14	89 %REC			Z		
		TETRACHLOROETHENE	140	UG/L		V	5	1
		TOLUENE	5	UG/L	U	V	2000	0
		TOLUENE - D8	102 %REC			Z		
		TOTAL XYLEMES	5	UG/L	U	V		
		TRICHLOROETHENE	800	UG/L	E	Z	5	1
		TRICHLOROETHENE	1000	UG/L	D	V	5	1
		VINYL ACETATE	10	UG/L	U	V		
		VINYL CHLORIDE	10	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5	UG/L	U	V		
		o-FLUOROPHENOL	24 %REC			Z		
		p-BROMODIPHENYL ETHER	10	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5	UG/L	U	V		
FT10282RG	25-Jul-94	1,1,1-TRICHLOROETHANE	6	UG/L	J	A	200	0
		1,1,2,2-TETRACHLOROETHANE	25	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	25	UG/L	U	V		
		1,1-DICHLOROETHANE	25	UG/L	U	V	5	1
		1,1-DICHLOROETHENE	16	UG/L	J	A	7	1
		1,2 DICHLOROETHANE -D4	107 %REC			Z		
		1,2-DICHLOROETHANE	25	UG/L	U	V	5	1
		1,2-DICHLOROETHENE	25	UG/L	U	V		
		1,2-DICHLOROPROPANE	25	UG/L	U	V		
		2-BUTANONE	50	UG/L	U	R		
		2-HEXANONE	50	UG/L	U	V		
		4-METHYL-2-PENTANONE	50	UG/L	U	V		

## 881 Collection Well VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10282RG	25-Jul-94	ACETONE	50	UG/L	U	V		
		BENZENE	25	UG/L	U	V		
		BROMODICHLOROMETHANE	25	UG/L	U	V		
		BROMOFLUOROBENZENE	96	%REC		Z		
		BROMOFORM	25	UG/L	U	V		
		BROMOMETHANE	50	UG/L	U	V		
		CARBON DISULFIDE	25	UG/L	U	V		
		CARBON TETRACHLORIDE	25	UG/L	U	V	5	1
		CHLOROBENZENE	25	UG/L	U	V		
		CHLOROETHANE	50	UG/L	U	V		
		CHLOROFORM	25	UG/L	U	V		
		CHLOROMETHANE	50	UG/L	U	V		
		DIBROMOCHLOROMETHANE	25	UG/L	U	V		
		ETHYLBENZENE	25	UG/L	U	V		
		METHYLENE CHLORIDE	25	UG/L	U	V	5	1
		STYRENE	25	UG/L	U	V		
		TETRACHLOROETHENE	120	UG/L		V	5	1
		TOLUENE	25	UG/L	U	V	2000	0
		TOLUENE - D8	103	%REC		Z		
		TOTAL XYLEMES	25	UG/L	U	V		
		TRICHLOROETHENE	860	UG/L		V	5	1
		VINYL ACETATE	50	UG/L	U	V		
		VINYL CHLORIDE	50	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	25	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	25	UG/L	U	V		
FT10294RG	11-Aug-94	1,1,1-TRICHLOROETHANE	5	UG/L		V	200	0
		1,1,2,2-TETRACHLOROETHANE	5	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5	UG/L	U	V		
		1,1-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	12	UG/L		V	7	1
		1,2 DICHLOROETHANE -D4	104	%REC		Z		
		1,2,4-TRICHLOROBENZENE	10	UG/L	U	V		
		1,2-DICHLOROBENZENE	10	UG/L	U	V		
		1,2-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,2-DICHLOROETHENE	5	UG/L	U	V		
		1,2-DICHLOROPROPANE	5	UG/L	U	V		
		1,3-DICHLOROBENZENE	10	UG/L	U	V		
		1,4-DICHLOROBENZENE	10	UG/L	U	V		
		2,4,5-TRICHLOROPHENOL	50	UG/L	U	V		
		2,4,6-TRIBROMOPHENOL	58	%REC		Z		
		2,4,6-TRICHLOROPHENOL	10	UG/L	U	V		
		2,4-DICHLOROPHENOL	10	UG/L	U	V		
		2,4-DIMETHYLPHENOL	10	UG/L	U	V		
		2,4-DINITROPHENOL	50	UG/L	U	V		
		2,4-DINITROTOLUENE	10	UG/L	U	V		
		2,6-DINITROTOLUENE	10	UG/L	U	V		
		2-BUTANONE	10	UG/L	U	R		
		2-CHLORONAPHTHALENE	10	UG/L	U	V		
		2-CHLOROPHENOL	10	UG/L	U	V		
		2-FLUOROBIPHENYL	46	%REC		Z		
		2-HEXANONE	10	UG/L	U	V		
		2-METHYLNAPHTHALENE	10	UG/L	U	V		
		2-METHYLPHENOL	10	UG/L	U	V		
		2-NITROANILINE	50	UG/L	U	V		
		2-NITROPHENOL	10	UG/L	U	V		
		3,3'-DICHLOROBENZIDINE	20	UG/L	U	V		
		3-NITROANILINE	50	UG/L	U	V		
		4,6-DINITRO-2-METHYLPHENOL	50	UG/L	U	V		
		4-CHLORO-3-METHYLPHENOL	10	UG/L	U	V		
		4-CHLOROANILINE	10	UG/L	U	V		
		4-CHLOROPHENYL PHENYL ETHER	10	UG/L	U	V		

## 881 Collection Well VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10294RG	11-Aug-94	4-METHYL-2-PENTANONE	10	UG/L	U	V		
		4-METHYLPHENOL	10	UG/L	U	V		
		4-NITROANILINE	50	UG/L	U	V		
		4-NITROPHENOL	50	UG/L	U	V		
		ACENAPHTHENE	10	UG/L	U	V		
		ACENAPHTHYLENE	10	UG/L	U	V		
		ACETONE	10	UG/L	U	V		
		ANTHRACENE	10	UG/L	U	V		
		BENZENE	5	UG/L	U	V		
		BENZO(a)ANTHRACENE	10	UG/L	U	V		
		BENZO(a)PYRENE	10	UG/L	U	V		
		BENZO(b)FLUORANTHENE	10	UG/L	U	V		
		BENZO(ghi)PERYLENE	10	UG/L	U	V		
		BENZO(k)FLUORANTHENE	10	UG/L	U	V		
		BENZOIC ACID	50	UG/L	U	V		
		BENZYL ALCOHOL	10	UG/L	U	V		
		BIS(2-CHLOROETHOXY)METHANE	10	UG/L	U	V		
		BIS(2-CHLOROETHYL)ETHER	10	UG/L	U	V		
		BIS(2-CHLOROISOPROPYL)ETHER	10	UG/L	U	V		
		BIS(2-ETHYLHEXYL)PHTHALATE	10	UG/L	U	V		
		BROMODICHLOROMETHANE	5	UG/L	U	V		
		BROMOFLUOROBENZENE	91	%REC		Z		
		BROMOFORM	5	UG/L	U	V		
		BROMOMETHANE	10	UG/L	U	V		
		BUTYL BENZYL PHTHALATE	10	UG/L	U	V		
		CARBON DISULFIDE	5	UG/L	U	V		
		CARBON TETRACHLORIDE	5	UG/L		V	5	0
		CHLOROBENZENE	5	UG/L	U	V		
		CHLOROETHANE	10	UG/L	U	V		
		CHLOROFORM	5	UG/L	U	V		
		CHLOROMETHANE	10	UG/L	U	V		
		CHRYSENE	10	UG/L	U	V		
		DI-n-BUTYL PHTHALATE	10	UG/L	U	V		
		DI-n-OCTYL PHTHALATE	10	UG/L	U	V		
		DIBENZO(a,h)ANTHRACENE	10	UG/L	U	V		
		DIBENZOFURAN	10	UG/L	U	V		
		DIBROMOCHLOROMETHANE	5	UG/L	U	V		
		DIETHYL PHTHALATE	10	UG/L	U	V		
		DIMETHYL PHTHALATE	10	UG/L	U	V		
		ETHYLBENZENE	5	UG/L	U	V		
		FLUORANTHENE	10	UG/L	U	V		
		FLUORENE	10	UG/L	U	V		
		HEXACHLOROBENZENE	10	UG/L	U	V		
		HEXACHLOROBUTADIENE	10	UG/L	U	V		
		HEXACHLOROCYCLOPENTADIENE	10	UG/L	U	V		
		HEXACHLOROETHANE	10	UG/L	U	V		
		INDENO(1,2,3-cd)PYRENE	10	UG/L	U	V		
		ISOPHORONE	10	UG/L	U	V		
		METHYLENE CHLORIDE	5	UG/L	U	V	5	0
		N-NITROSO-DI-n-PROPYLAMINE	10	UG/L	U	V		
		N-NITROSODIPHENYLAMINE	10	UG/L	U	V		
		NAPHTHALENE	10	UG/L	U	V		
		NITROBENZENE	10	UG/L	U	V		
		NITROBENZENE-D5	45	%REC		Z		
		PENTACHLOROPHENOL	50	UG/L	U	V		
		PHENANTHRENE	10	UG/L	U	V		
		PHENOL	10	UG/L	U	V		
		PHENOL-D5	20	%REC		Z		
		PYRENE	10	UG/L	U	V		
		STYRENE	5	UG/L	U	V		
		TERPHENYL-D14	110	%REC		Z		
		TETRACHLOROETHENE	98	UG/L		V	5	1

## 881 Collection Well VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10294RG	11-Aug-94	TOLUENE	5	UG/L	U	V	2000	0
		TOLUENE - D8	101	%REC		Z		
		TOTAL XYLEMES	5	UG/L	U	V		
		TRICHLOROETHENE	580	UG/L	E	Z	5	1
		TRICHLOROETHENE	680	UG/L	D	V	5	1
		VINYL ACETATE	10	UG/L	U	V		
		VINYL CHLORIDE	10	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5	UG/L	U	V		
		o-FLUOROPHENOL	34	%REC		Z		
		p-BROMODIPHENYL ETHER	10	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5	UG/L	U	V		
FT10298RG	7-Sep-94	1,1,1-TRICHLOROETHANE	3	UG/L	J	A	200	0
		1,1,2,2-TETRACHLOROETHANE	5	UG/L	U	V		
		1,1,2-TRICHLOROETHANE	5	UG/L	U	V		
		1,1-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,1-DICHLOROETHENE	8	UG/L		V	7	1
		1,2 DICHLOROETHANE -D4	104	%REC		Z		
		1,2,4-TRICHLOROBENZENE	10	UG/L	U	V		
		1,2-DICHLOROBENZENE	10	UG/L	U	V		
		1,2-DICHLOROETHANE	5	UG/L	U	V	5	0
		1,2-DICHLOROETHENE	5	UG/L	U	V		
		1,2-DICHLOROPROPANE	5	UG/L	U	V		
		1,3-DICHLOROBENZENE	10	UG/L	U	V		
		1,4-DICHLOROBENZENE	10	UG/L	U	V		
		2,4,5-TRICHLOROPHENOL	50	UG/L	U	V		
		2,4,6-TRIBROMOPHENOL	66	%REC		Z		
		2,4,6-TRICHLOROPHENOL	10	UG/L	U	V		
		2,4-DICHLOROPHENOL	10	UG/L	U	V		
		2,4-DIMETHYLPHENOL	10	UG/L	U	V		
		2,4-DINITROPHENOL	50	UG/L	U	R		
		2,4-DINITROTOLUENE	10	UG/L	U	V		
		2,6-DINITROTOLUENE	10	UG/L	U	V		
		2-BUTANONE	10	UG/L	U	R		
		2-CHLORONAPHTHALENE	10	UG/L	U	V		
		2-CHLOROPHENOL	10	UG/L	U	V		
		2-FLUOROBIPHENYL	54	%REC		Z		
		2-HEXANONE	10	UG/L	U	V		
		2-METHYLNAPHTHALENE	10	UG/L	U	V		
		2-METHYLPHENOL	10	UG/L	U	V		
		2-NITROANILINE	50	UG/L	U	V		
		2-NITROPHENOL	10	UG/L	U	V		
		3,3'-DICHLOROBENZIDINE	20	UG/L	U	V		
		3-NITROANILINE	50	UG/L	U	V		
		4,6-DINITRO-2-METHYLPHENOL	50	UG/L	U	V		
		4-CHLORO-3-METHYLPHENOL	10	UG/L	U	V		
		4-CHLOROANILINE	10	UG/L	U	V		
		4-CHLOROPHENYL PHENYL ETHER	10	UG/L	U	V		
		4-METHYL-2-PENTANONE	10	UG/L	U	V		
		4-METHYLPHENOL	10	UG/L	U	V		
		4-NITROANILINE	50	UG/L	U	V		
		4-NITROPHENOL	50	UG/L	U	V		
		ACENAPHTHENE	10	UG/L	U	V		
		ACENAPHTHYLENE	10	UG/L	U	V		
		ACETONE	10	UG/L	U	V		
		ANTHRACENE	10	UG/L	U	V		
		BENZENE	5	UG/L	U	V		
		BENZO(a)ANTHRACENE	10	UG/L	U	V		
		BENZO(a)PYRENE	10	UG/L	U	V		
		BENZO(b)FLUORANTHENE	10	UG/L	U	V		
		BENZO(ghi)PERYLENE	10	UG/L	U	V		
		BENZO(k)FLUORANTHENE	10	UG/L	U	V		

## 881 Collection Well VOA July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10298RG	7-Sep-94	BENZOIC ACID	50	UG/L	U	V		
		BENZYL ALCOHOL	10	UG/L	U	V		
		BIS(2-CHLOROETHOXY)METHANE	10	UG/L	U	V		
		BIS(2-CHLOROETHYL)ETHER	10	UG/L	U	V		
		BIS(2-CHLOROISOPROPYL)ETHER	10	UG/L	U	V		
		BIS(2-ETHYLHEXYL)PHTHALATE	10	UG/L	U	V		
		BROMODICHLOROMETHANE	5	UG/L	U	V		
		BROMOFLUOROBENZENE	90	%REC		Z		
		BROMOFORM	5	UG/L	U	V		
		BROMOMETHANE	10	UG/L	U	V		
		BUTYL BENZYL PHTHALATE	10	UG/L	U	V		
		CARBON DISULFIDE	5	UG/L	U	V		
		CARBON TETRACHLORIDE	6	UG/L		V	5	1
		CHLOROBENZENE	5	UG/L	U	V		
		CHLOROETHANE	10	UG/L	U	V		
		CHLOROFORM	5	UG/L	U	V		
		CHLOROMETHANE	10	UG/L	U	V		
		CHRYSENE	10	UG/L	U	V		
		DI-n-BUTYL PHTHALATE	10	UG/L	U	V		
		DI-n-OCTYL PHTHALATE	10	UG/L	U	V		
		DIBENZO(a,h)ANTHRACENE	10	UG/L	U	V		
		DIBENZOFURAN	10	UG/L	U	V		
		DIBROMOCHLOROMETHANE	5	UG/L	U	V		
		DIETHYL PHTHALATE	10	UG/L	U	V		
		DIMETHYL PHTHALATE	10	UG/L	U	V		
		ETHYLBENZENE	5	UG/L	U	V		
		FLUORANTHENE	10	UG/L	U	V		
		FLUORENE	10	UG/L	U	V		
		HEXAChLOROBENZENE	10	UG/L	U	V		
		HEXAChLOROBUTADIENE	10	UG/L	U	V		
		HEXAChLOROCYCLOPENTADIENE	10	UG/L	U	V		
		HEXAChLOROETHANE	10	UG/L	U	V		
		INDENO(1,2,3-cd)PYRENE	10	UG/L	U	V		
		ISOPHORONE	10	UG/L	U	V		
		METHYLENE CHLORIDE	5	UG/L	U	V	5	0
		N-NITROSO-DI-n-PROPYLAMINE	10	UG/L	U	V		
		N-NITROSODIPHENYLAMINE	10	UG/L	U	V		
		NAPHTHALENE	10	UG/L	U	V		
		NITROBENZENE	10	UG/L	U	V		
		NITROBENZENE-D5	54	%REC		Z		
		PENTACHLOROPHENOL	50	UG/L	U	V		
		PHENANTHRENE	10	UG/L	U	V		
		PHENOL	10	UG/L	U	V		
		PHENOL-D5	53	%REC		Z		
		PYRENE	10	UG/L	U	V		
		STYRENE	5	UG/L	U	V		
		TERPHENYL-D14	61	%REC		Z		
		TETRAChLOROETHENE	83	UG/L		V	5	1
		TOLUENE	5	UG/L	U	V	2000	0
		TOLUENE - D8	103	%REC		Z		
		TOTAL XYLEMES	5	UG/L	U	V		
		TRICHLOROETHENE	570	UG/L	E	Z	5	1
		TRICHLOROETHENE	690	UG/L	D	V	5	1
		VINYL ACETATE	10	UG/L	U	V		
		VINYL CHLORIDE	10	UG/L	U	V		
		cis-1,3-DICHLOROPROPENE	5	UG/L	U	V		
		o-FLUOROPHENOL	44	%REC		Z		
		p-BROMODIPHENYL ETHER	10	UG/L	U	V		
		trans-1,3-DICHLOROPROPENE	5	UG/L	U	V		

881 Footing Drain Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10297RG	7-Sep-94	4,4'-DDD	0.1	UG/L	U	V		
		4,4'-DDE	0.1	UG/L	U	V		
		4,4'-DDT	0.1	UG/L	U	V		
		ALDRIN	0.05	UG/L	U	V		
		AROCLOR-1016	0.5	UG/L	U	V		
		AROCLOR-1221	0.5	UG/L	U	V		
		AROCLOR-1232	0.5	UG/L	U	V		
		AROCLOR-1242	0.5	UG/L	U	V		
		AROCLOR-1248	0.5	UG/L	U	V		
		AROCLOR-1254	1	UG/L	U	V		
		AROCLOR-1260	1	UG/L	U	V		
		BICARBONATE AS CACO <sub>3</sub>	230	MG/L		V		
		CARBONATE AS CACO <sub>3</sub>	1	MG/L	U	V		
		CHLORIDE	99	MG/L		V	250	0
		DI-BUTYLCHLORENDATE	86	%REC		Z		
		DIELDRIN	0.1	UG/L	U	V		
		ENDOSULFAN I	0.05	UG/L	U	V		
		ENDOSULFAN II	0.1	UG/L	U	V		
		ENDOSULFAN SULFATE	0.1	UG/L	U	V		
		ENDRIN	0.1	UG/L	U	V		
		ENDRIN KETONE	0.1	UG/L	U	V		
		FLUORIDE	1.4	MG/L		V		
		HEPTACHLOR	0.05	UG/L	U	V		
		HEPTACHLOR EPOXIDE	0.05	UG/L	U	V		
		METHOXYCHLOR	0.5	UG/L	U	V		
		NITRATE/NITRITE	6.9	MG/L		V	10	0
		SULFATE	59	MG/L		V	250	0
		TOTAL DISSOLVED SOLIDS	570	MG/L		V	400	1
		TOTAL SUSPENDED SOLIDS	4	MG/L	U	V		
		TOXAPHENE	1	UG/L	U	V		
		alpha-BHC	0.05	UG/L	U	V		
		alpha-CHLORDANE	0.5	UG/L	U	V		
		beta-BHC	0.05	UG/L	U	V		
		delta-BHC	0.05	UG/L	U	V		
		gamma-BHC (LINDANE)	0.05	UG/L	U	V		
		gamma-CHLORDANE	0.5	UG/L	U	V		
		pH	7.58	PH		JA		

881 Collection Well Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual	Vqual	ARAR	# SAM > ARAR
FT10272RG	5-Jul-94	ALUMINUM	33 UG/L		U	JA	5000	0
		ANTIMONY	13.6 UG/L		U	JA	60	0
		ARSENIC	2 UG/L		U	V	50	0
		BARIUM	83 UG/L		B	V	1000	0
		BERYLLIUM	1 UG/L		U	V	100	0
		CADMIUM	3 UG/L		U	V	10	0
		CALCIUM	163000 UG/L			V		
		CESIUM	43 UG/L		U	V		
		CHROMIUM	2 UG/L		U	V	50	0
		COBALT	3 UG/L		U	V		
		COPPER	2.1 UG/L		B	V	200	0
		IRON	51 UG/L		U	JA	300	0
		LEAD	1 UG/L		U	V	50	0
		LITHIUM	21.5 UG/L		B	V	2500	0
		MAGNESIUM	40200 UG/L			V		
		MANGANESE	34.6 UG/L			V	50	0
		MERCURY	0.2 UG/L		U	V	2	0
		MOLYBDENUM	5.4 UG/L		U	JA	100	0
		NICKEL	6 UG/L		U	V	200	0
		POTASSIUM	3140 UG/L		B	V		
		SELENIUM	702 UG/L			V	10	1
		SILICON	7600 UG/L			V		
		SILVER	2 UG/L		U	V	50	0
		SODIUM	148000 UG/L			V		
		STRONTIUM	1420 UG/L			V		
		THALLIUM	1 UG/L		U	V	10	0
		TIN	12 UG/L		U	V		
		VANADIUM	9.3 UG/L		B	V	100	0
		ZINC	12.2 UG/L		U	JA	2000	0
FT10294RG	11-Aug-94	ALUMINUM	15.7 UG/L		B	V	5000	0
		ANTIMONY	13 UG/L		U	V	60	0
		ARSENIC	2 UG/L		U	V	50	0
		BARIUM	78.9 UG/L		B	V	1000	0
		BERYLLIUM	1 UG/L		U	V	100	0
		CADMIUM	3 UG/L		U	V	10	0
		CALCIUM	174000 UG/L			V		
		CESIUM	43 UG/L		U	V		
		CHROMIUM	4.4 UG/L		B	V	50	0
		COBALT	3 UG/L		U	V		
		COPPER	2 UG/L		U	V	200	0
		IRON	57.8 UG/L		B	V	300	0
		LEAD	1 UG/L		U	V	50	0
		LITHIUM	23.1 UG/L		B	V	2500	0
		MAGNESIUM	39000 UG/L			V		
		MANGANESE	3.6 UG/L		B	V	50	0
		MERCURY	0.2 UG/L		U	V	2	0
		MOLYBDENUM	6.1 UG/L		U	JA	100	0
		NICKEL	13.4 UG/L		B	V	200	0
		POTASSIUM	1250 UG/L		B	V		
		SELENIUM	671 UG/L			V	10	1
		SILICON	7160 UG/L			V		
		SILVER	2 UG/L		U	V	50	0
		SODIUM	146000 UG/L			V		
		STRONTIUM	1290 UG/L			V		
		THALLIUM	1 UG/L		UWN	JA	10	0
		TIN	12 UG/L		U	V		
		VANADIUM	6.8 UG/L		B	V	100	0
		ZINC	7.6 UG/L		U	JA	2000	0

## 881 Collection Well Metals July - September 1994

Sample Number	Sample Date	Element	Result	Unit Measure	Qual.	Vqual	ARAR	# SAM > ARAR
FT10298RG	7-Sep-94	ALUMINUM		12 UG/L	U	V	5000	0
		ANTIMONY		13 UG/L	U	V	60	0
		ARSENIC		2 UG/L	U	V	50	0
		BARIUM		76.1 UG/L	B	V	1000	0
		BERYLLIUM		1 UG/L	U	V	100	0
		CADMUM		3 UG/L	U	V	10	0
		CALCIUM	171000	UG/L		V		
		CESIUM	43	UG/L	U	V		
		CHROMIUM	2	UG/L	U	V	50	0
		COBALT	3	UG/L	U	V		
		COPPER	2.3	UG/L	B	V	200	0
		IRON	50.7	UG/L	U	JA	300	0
		LEAD	1	UG/L	U	V	50	0
		LITHIUM	25.5	UG/L	B	V	2500	0
		MAGNESIUM	37900	UG/L		V		
		MANGANESE	14.8	UG/L	B	V	50	0
		MERCURY	0.2	UG/L	U	V	2	0
		MOLYBDENUM	5	UG/L	B	V	100	0
		NICKEL	60.3	UG/L		V	200	0
		POTASSIUM	1450	UG/L	B	V		
		SELENIUM	629	UG/L		V	10	1
		SILICON	7350	UG/L		V		
		SILVER	2	UG/L	UN	JA	50	0
		SODIUM	145000	UG/L		V		
		STRONTIUM	1270	UG/L		V		
		THALLIUM	1	UG/L	UWN	JA	10	0
		TIN	12	UG/L	U	V		
		VANADIUM	7.3	UG/L	B	V	100	0
		ZINC	19.7	UG/L	U	JA	2000	0

## 881 Collection Well Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10272RG	5-Jul-94	4,4'-DDD	0.1	UG/L	U	V		
		4,4'-DDE	0.1	UG/L	U	V		
		4,4'-DDT	0.1	UG/L	U	V		
		ALDRIN	0.05	UG/L	U	V		
		AROCLOR-1016	0.5	UG/L	U	V		
		AROCLOR-1221	0.5	UG/L	U	V		
		AROCLOR-1232	0.5	UG/L	U	V		
		AROCLOR-1242	0.5	UG/L	U	V		
		AROCLOR-1248	0.5	UG/L	U	V		
		AROCLOR-1254	1	UG/L	U	V		
		AROCLOR-1260	1	UG/L	U	V		
		BICARBONATE AS CACO <sub>3</sub>	350	MG/L		V		
		CARBONATE AS CACO <sub>3</sub>	1	MG/L	U	V		
		CHLORIDE	220	MG/L	JA	250	0	
		DI-BUTYLCHLORENDATE	53	%REC		Z		
		DIELDRIN	0.1	UG/L	U	V		
		ENDOSULFAN I	0.05	UG/L	U	V		
		ENDOSULFAN II	0.1	UG/L	U	V		
		ENDOSULFAN SULFATE	0.1	UG/L	U	V		
		ENDRIN	0.1	UG/L	U	V		
		ENDRIN KETONE	0.1	UG/L	U	V		
		FLUORIDE	1.2	MG/L		V		
		HEPTACHLOR	0.05	UG/L	U	V		
		HEPTACHLOR EPOXIDE	0.05	UG/L	U	V		
		METHOXYPHOR	0.5	UG/L	U	V		
		NITRATE/NITRITE	6	MG/L		V	10	0
		SULFATE	310	MG/L		V	250	1
		TOTAL DISSOLVED SOLIDS	1100	MG/L		V	400	1
		TOTAL SUSPENDED SOLIDS	4	MG/L	U	V		
		TOXAPHENE	1	UG/L	U	V		
		alpha-BHC	0.05	UG/L	U	V		
		alpha-CHLORDANE	0.5	UG/L	U	V		
		beta-BHC	0.05	UG/L	U	V		
		delta-BHC	0.05	UG/L	U	V		
		gamma-BHC (LINDANE)	0.05	UG/L	U	V		
		gamma-CHLORDANE	0.5	UG/L	U	V		
		pH	7.93	PH		V		

## 881 Collection Well Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10294RG	11-Aug-94	4,4'-DDD	0.1	UG/L	U	V		
		4,4'-DDE	0.1	UG/L	U	V		
		4,4'-DDT	0.1	UG/L	U	V		
		ALDRIN	0.05	UG/L	U	V		
		AROCLOR-1016	0.5	UG/L	U	V		
		AROCLOR-1221	0.5	UG/L	U	V		
		AROCLOR-1232	0.5	UG/L	U	V		
		AROCLOR-1242	0.5	UG/L	U	V		
		AROCLOR-1248	0.5	UG/L	U	V		
		AROCLOR-1254	1	UG/L	U	V		
		AROCLOR-1260	1	UG/L	U	V		
		BICARBONATE AS CACO <sub>3</sub>	360	MG/L		V		
		CARBONATE AS CACO <sub>3</sub>	1	MG/L	U	V		
		CHLORIDE	210	MG/L		V	250	0
		DI-BUTYLCHLORENDATE	93 %REC			Z		
		DIELDRIN	0.1	UG/L	U	V		
		ENDOSULFAN I	0.05	UG/L	U	V		
		ENDOSULFAN II	0.1	UG/L	U	V		
		ENDOSULFAN SULFATE	0.1	UG/L	U	V		
		ENDRIN	0.1	UG/L	U	V		
		ENDRIN KETONE	0.1	UG/L	U	V		
		FLUORIDE	1.9	MG/L		V		
		HEPTACHLOR	0.05	UG/L	U	V		
		HEPTACHLOR EPOXIDE	0.05	UG/L	U	V		
		METHOXYCHLOR	0.5	UG/L	U	V		
		NITRATE/NITRITE	6.1	MG/L		V	10	0
		SULFATE	220	MG/L		V	250	0
		TOTAL DISSOLVED SOLIDS	1000	MG/L		V	400	1
		TOTAL SUSPENDED SOLIDS	100	MG/L		V		
		TOXAPHENE	1	UG/L	U	V		
		alpha-BHC	0.05	UG/L	U	V		
		alpha-CHLORDANE	0.5	UG/L	U	V		
		beta-BHC	0.05	UG/L	U	V		
		delta-BHC	0.05	UG/L	U	V		
		gamma-BHC (LINDANE)	0.05	UG/L	U	V		
		gamma-CHLORDANE	0.5	UG/L	U	V		
		pH	7.98	PH		JA		

## 881 Collection Well Water Quality July - September 1994

Sample Number	Sample Date	Compound	Result	Unit Meas	Qual	Vqual	ARAR	# SAM > ARAR
FT10298RG	7-Sep-94	4,4'-DDD		0.1 UG/L	U	V		
		4,4'-DDE		0.1 UG/L	U	V		
		4,4'-DDT		0.1 UG/L	U	V		
		ALDRIN		0.05 UG/L	U	V		
		AROCLOR-1016		0.5 UG/L	U	V		
		AROCLOR-1221		0.5 UG/L	U	V		
		AROCLOR-1232		0.5 UG/L	U	V		
		AROCLOR-1242		0.5 UG/L	U	V		
		AROCLOR-1248		0.5 UG/L	U	V		
		AROCLOR-1254		1 UG/L	U	V		
		AROCLOR-1260		1 UG/L	U	V		
		BICARBONATE AS CACO <sub>3</sub>		350 MG/L		V		
		CARBONATE AS CACO <sub>3</sub>		1 MG/L	U	V		
		CHLORIDE		200 MG/L		V	250	0
		DI-BUTYLCHLORENDATE		99 %REC		Z		
		DIELDRIN		0.1 UG/L	U	V		
		ENDOSULFAN I		0.05 UG/L	U	V		
		ENDOSULFAN II		0.1 UG/L	U	V		
		ENDOSULFAN SULFATE		0.1 UG/L	U	V		
		ENDRIN		0.1 UG/L	U	V		
		ENDRIN KETONE		0.1 UG/L	U	V		
		FLUORIDE		2.1 MG/L		V		
		HEPTACHLOR		0.05 UG/L	U	V		
		HEPTACHLOR EPOXIDE		0.05 UG/L	U	V		
		METHOXYCHLOR		0.5 UG/L	U	V		
		NITRATE/NITRITE		6.3 MG/L		V	10	0
		SULFATE		220 MG/L		V	250	0
		TOTAL DISSOLVED SOLIDS		1100 MG/L		V	400	1
		TOTAL SUSPENDED SOLIDS		4 MG/L	U	V		
		TOXAPHENE		1 UG/L	U	V		
		alpha-BHC		0.05 UG/L	U	V		
		alpha-CHLORDANE		0.5 UG/L	U	V		
		beta-BHC		0.05 UG/L	U	V		
		delta-BHC		0.05 UG/L	U	V		
		gamma-BHC (LINDANE)		0.05 UG/L	U	V		
		gamma-CHLORDANE		0.5 UG/L	U	V		
		pH		7.48 PH		JA		

881 Collection Well Rads July - September 1994

Sample Number	Sample Date	Isotope	Result	Unit Meas	Error	Qual	Vqual	ARAR	# SAM > ARAR
FT10272RG	5-Jul-94	AMERICIUM-241	0.004	PCI/L	0.006	U	V	4	0
		GROSS ALPHA	16	PCI/L	4.1	A	15		1
		GROSS BETA	6.5	PCI/L	1.7	A	50		0
		PLUTONIUM-239/240	0.004	PCI/L	0.004	U	V	15	0
		STRONTIUM-89,90	-0.11	PCI/L	0.16	U	V	8	0
		TOTAL RADIOCESIUM	-0.018	PCI/L	0.071	U	V		
		TRITIUM	-62	PCI/L	170	U	V	20,000	0
		URANIUM-233,-234	14	PCI/L	1	V			
		URANIUM-235	0.7	PCI/L	0.16	V			
		URANIUM-238	9.8	PCI/L	0.77	V			
		TOTAL URANIUM	24.5		1.93			40	0
FT10294RG	11-Aug-94	AMERICIUM-241	-0.003	PCI/L	0.004	U	Y	4	0
		GROSS ALPHA	14	PCI/L	3.5	Y	15		0
		GROSS BETA	9.5	PCI/L	1.9	Y	50		0
		PLUTONIUM-239/240	0.002	PCI/L	0.004	U	Y	15	0
		STRONTIUM-89,90	-0.004	PCI/L	0.19	U	Y	8	0
		TOTAL RADIOCESIUM	0.095	PCI/L	0.099	U	Y		
		TRITIUM	75	PCI/L	150	U	Y	20,000	0
		URANIUM-233,-234	15	PCI/L	1.8	Y			
		URANIUM-235	0.44	PCI/L	0.2	J	Y		
		URANIUM-238	12	PCI/L	1.5	Y			
		TOTAL URANIUM	27.44		3.5			40	0
FT10298RG	7-Sep-94	AMERICIUM-241	0.004	PCI/L	0.006	U	Y	4	0
		GROSS ALPHA	11	PCI/L	3	Y	15		0
		GROSS BETA	6.9	PCI/L	2	Y	50		0
		PLUTONIUM-239/240	0.001	PCI/L	0.005	U	Y	15	0
		STRONTIUM-89,90	-0.013	PCI/L	0.15	U	Y	8	0
		TOTAL RADIOCESIUM	0.15	PCI/L	0.13	U	Y		
		TRITIUM	-160	PCI/L	150	U	Y	20,000	0
		URANIUM-233,-234	13	PCI/L	1.7	Y			
		URANIUM-235	0.47	PCI/L	0.23	J	Y		
		URANIUM-238	8.6	PCI/L	1.2	Y			
		TOTAL URANIUM	22.07		3.13			40	0

# **NOTICE:**

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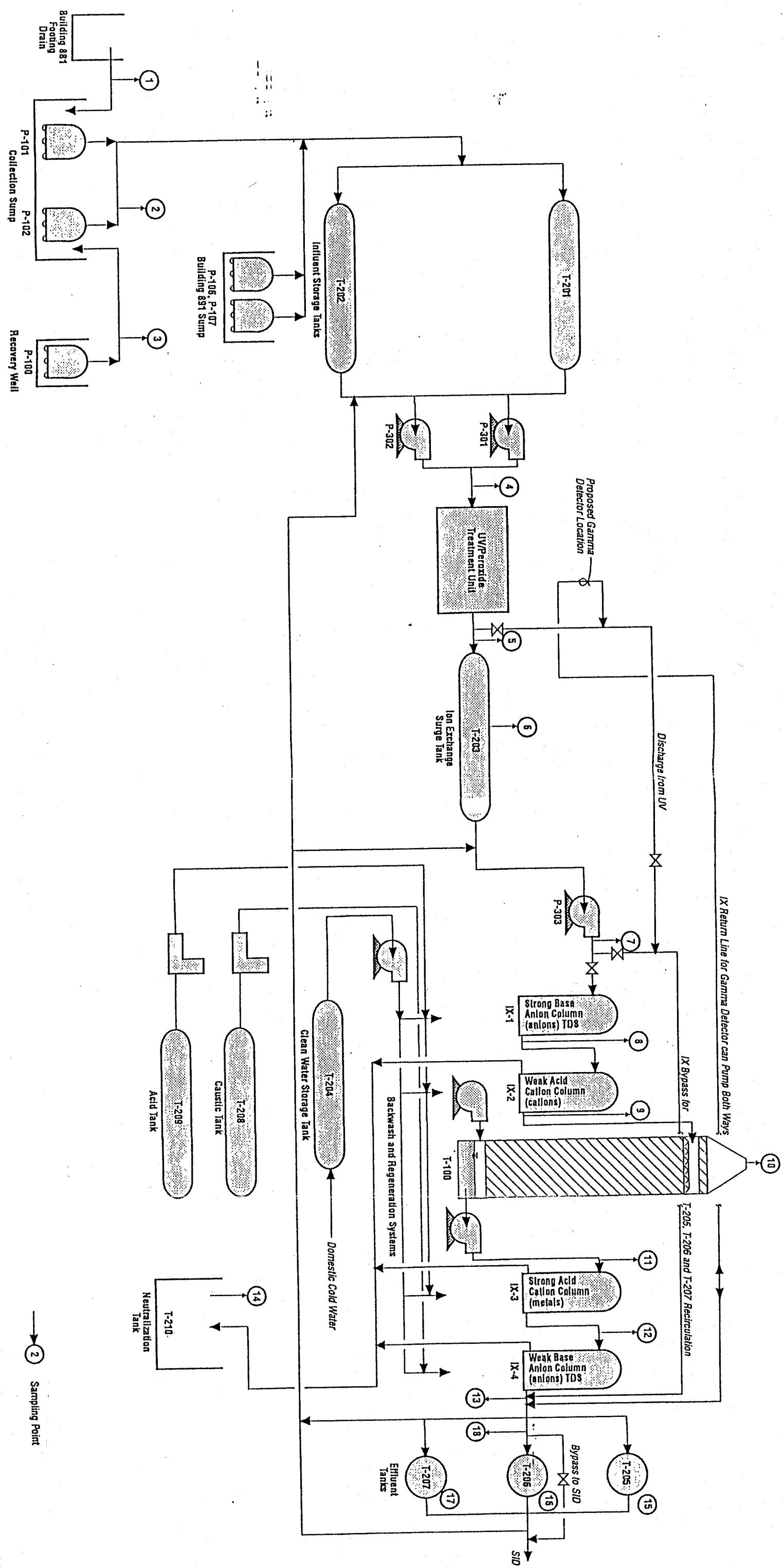


FIGURE 1.0.1

Rocky Flats OU1 October – December 1994 Water Level Map

FIGURE 9.1.1

